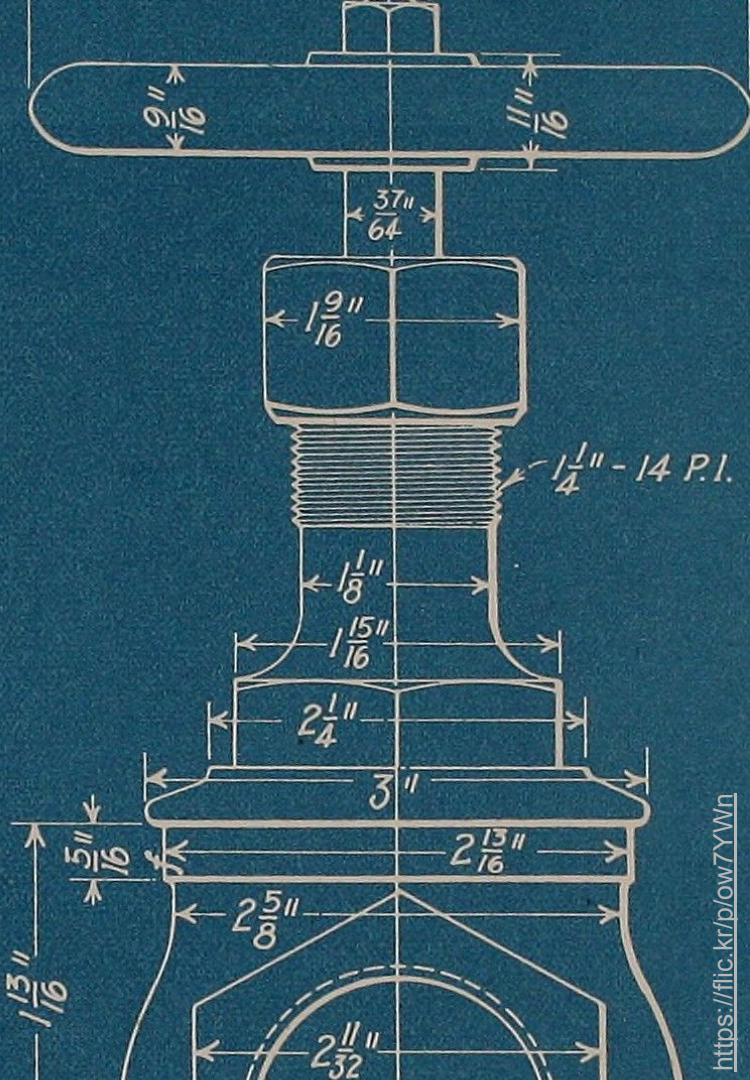


Information technology

trends and the job market



The opinions expressed in this presentation are personal and not necessarily those of Adzuna

vkatsikaros *at gmail dot com*

Τα slides θα δοθούν, όλα οι πηγές θα είναι διαθέσιμες

Βάλτε ερωτήσεις στο chat συζητάμε στο τέλος

Άδειες & αναφορές

- Εικόνες: αναφορά ανά εικόνα
- Εικονίδια: <https://github.com/twitter/twemoji>
- Σημείες: Wikipedia articles

Βαγγέλης Κατσικάρος



- Head of infrastructure (20% line mngt, 20% strategic planning, 60% IC)
- Infrastructure engineer
- Backend engineer & DB administrator

- 10 χρόνια remote
- Startup: 2 founders + 3 υπάλληλοι → 100 υπάλληλοι



£26,621
GEORGE'S CV VALUE

ValueMyCV

WHAT ARE YOU WORTH?

[Upload your CV today](#)

SEARCH JOBS

What? e.g. job, company, title

Where? e.g. city, county or postcode

[Q](#) [T](#)

We're on a mission to Restart Britain's jobs engine. [Search 1000's of remote jobs »](#) and [find out more here »](#)

Adzuna - zero in on the right role

Every job

Searching for the right job is hard work. We've brought

Smart matches

We've spent a decade developing a more

Great data

Using the best tools is a no brainer. Find local salary and

Find a job

What?
for example job, company, skills

Where?
for example city, county or postcode

[Search](#)

[Advanced search](#)

Apply for jobs

You can search for jobs without an account. But to apply you need to create an account or sign in.

[Create account >](#)

Already have an account? [Sign in](#)

Latest update

Job help website

You can find hints and tips about looking for work [at the job help website](#).

Working safely

Check the [latest guidance on working safely](#).

Seasonal jobs

Search for [seasonal jobs](#) now.

Popular categories

- [Trade and construction jobs](#)
- [Hospitality and catering jobs](#)
- [Maintenance jobs](#)
- [Logistics and warehouse jobs](#)
- [Healthcare and nursing jobs](#)

Popular locations

- [London](#)
- [Glasgow](#)
- [Liverpool](#)
- [Manchester](#)
- [Leeds](#)

Popular searches

- [Cleaner jobs](#)
- [Warehouse jobs](#)
- [Retail jobs](#)
- [Driver jobs](#)
- [Labourer jobs](#)

[Browse all jobs »](#)



What? Where? [Advanced](#)

645 Python sql Jobs in London

Average salary
£61,997

Receive the newest jobs for this search by email:

Filter results

Sort by	+
Salary	+
Remote	+
Location	+
Category	+
Company	+
Contract type	+
Hours	+

- Related searches**
- [python](#)
 - [python developer](#)
 - [sql](#)
 - [sql analyst](#)

Data Developer Python SQL - WfH

£55000 - £70000 PER ANNUM + BENEFITS - CLIENT SERVER -

LONDON, SOUTH EAST, SOUTH EAST LONDON

Data Developer London to £70k Remote Interview WFH Data Developer / Engineer (**Python SQL BI**) Remote Interview WFH. Are you a data technologist seeking a role where you'll ... a competitive salary (to £70k) plus benefits. Apply now or call 020 8016 4456 to find out more about this Data Developer / Engineer (**Python SQL BI**) opportunity. This job was originally posted ...

Data Engineer - Python, SQL, Spark

JOBSWORTH: £ 52,136 P.A. - OLIVER BERNARD - LONDON, SE11

Data Engineer - **Python, SQL**, Spark Location: London, N1C 4AX (Remote currently)Salary: £60,000 - £70,000Industry: E-commerceTech Stack: **Python, SQL**, Pandas, Spark, AWSGreat ... opportunity for a talented Data Engineer (**Python, SQL**, Pandas, AWS) who also has strong experience of developing applications using Python to join a business that is entrusted ...

Python/ SQL Developer

JOBSWORTH: £ 46,837 P.A. - AUSTIN FRASER - LONDON, LONDON

Python/ SQL Developer 3 month contract London/ Remote Austin Fraser are currently partnering with an exciting London-based start up who have some interesting projects coming up ... and are urgently looking for a **Python/ SQL Developer** to join them. This will be a 3 month contract initially with strong possibilities of multiple extensions beyond this. It will be fully remote ...

A woman with dark hair, wearing a white patterned shirt and brown work gloves, is focused on working with a bundle of copper wires. She is using a red-handled tool, possibly a wire cutter or pliers, to work on the wires. The background is dark, and there are several large coils of copper wire visible. The overall scene suggests a technical or industrial setting.

Η αγορά εργασίας

Οι συνθήκες στην αγορά εργασίας

είναι κακές





“Η κρίση έχει προκαλέσει έκρηξη αβεβαιότητας και ανασφάλειας και σοβαρή έλλειψη εμπιστοσύνης των εργαζομένων όσον αφορά την προστασία θεμελιωδών εργασιακών δικαιωμάτων τους και του βιοτικού τους επιπέδου”

“Η ελληνική οικονομία και η απασχόληση - Ετήσια Έκθεση, Ινστιτούτο Εργασίας ΓΣΕΕ”, 2020

https://www.inegsee.gr/wp-content/uploads/2020/10/Ethsia_Ekthesi_2020_INEGSEE.pdf

https://www.inegsee.gr/wp-content/uploads/2015/09/EKTHESI_2015.pdf

https://www.inegsee.gr/wp-content/uploads/2014/02/files/EKTHESH_12.pdf



“Το β’ τρίμηνο του 2020 ο μέσος μηνιαίος μισθός μειώθηκε κατά περίπου 10% σε σχέση με το ίδιο τρίμηνο του 2019. Στο ίδιο διάστημα το ποσοστό των απασχολουμένων που λάμβανε από 0 έως 200 ευρώ αυξήθηκε από 1% σε περίπου 12%”

“Η ελληνική οικονομία και η απασχόληση - Ετήσια Έκθεση, Ινστιτούτο Εργασίας ΓΣΕΕ” 2020



“Salaries were adjusted, but the increased competition that should have helped to bring prices down never happened. The burden of the internal devaluation fell excessively on labor.”

<https://www.imf.org/en/News/Articles/2019/10/01/sp093019-The-IMF-and-the-Greek-Crisis-Myths-and-Realities> “The IMF and the Greek Crisis: Myths and Realities, September 2019



“Several years of recession and austerity measures have persistently challenged the constitutionally protected right to work and the right to an adequate standard of living.”

“Salaries were drastically cut [...] and working conditions weakened”

<https://pace.coe.int/en/files/24264/html> “The progress of the Assembly's monitoring procedure” Council of Europe, 2017



“Net real wages in Germany have hardly risen since the beginning of the 1990s. Between 2004 and 2008 they even declined.”

https://www.diw.de/documents/publikationen/73/diw_01.c.342371.de/diw_wr_2009-28.pdf “Real Wages in Germany: Numerous Years of Decline”, 2009



“1 in every 8 children in America (σημ ΗΠΑ) is experiencing shockingly high rates of food insecurity, school drop out, teenage pregnancy and/or child deaths”

<https://www.savethechildren.org/content/dam/usa/reports/advocacy/us-childhood-report-2020.pdf> “The Land of Inopportunity” 2020



“Real wages rose at the top of the distribution, whereas wages stagnated or fell at the middle and bottom.”

<https://crsreports.congress.gov/product/details?prodcode=R45090> “Real Wage Trends, 1979 to 2018”, Congressional Research Service (CRS)





Η πληροφορική

είναι από τις εξαιρέσεις

Έλλειψη προσωπικού

“In 2017, more than half of EU enterprises that recruited or tried to recruit ICT specialists **had difficulties in filling ICT vacancies.**”

“**One in 5** enterprises employed ICT specialists”

[https://ec.europa.eu/eurostat/statistics-explained/index.php?title=ICT specialists - statistics on hard-to-fill vacancies in enterprises#Employment and recruitment of ICT specialists](https://ec.europa.eu/eurostat/statistics-explained/index.php?title=ICT_specialists_-_statistics_on_hard-to-fill_vacancies_in_enterprises#Employment_and_recruitment_of_ICT_specialists)

* ICT (Information and Communication Technology)

Έλλειψη προσωπικού

“shortages of IT specialists are forecasted to reach around 500,000 by 2020 and we estimate that Europe would need 50,000 new high-tech leaders each year till 2025”.

http://eskills-scale.eu/fileadmin/eskills_scale/all_final_deliverables/scale_e-leadership_agenda_final.pdf

Μισθός

london, uk

backend developer

graduate degree (e.g. ma, ms)

postgresql

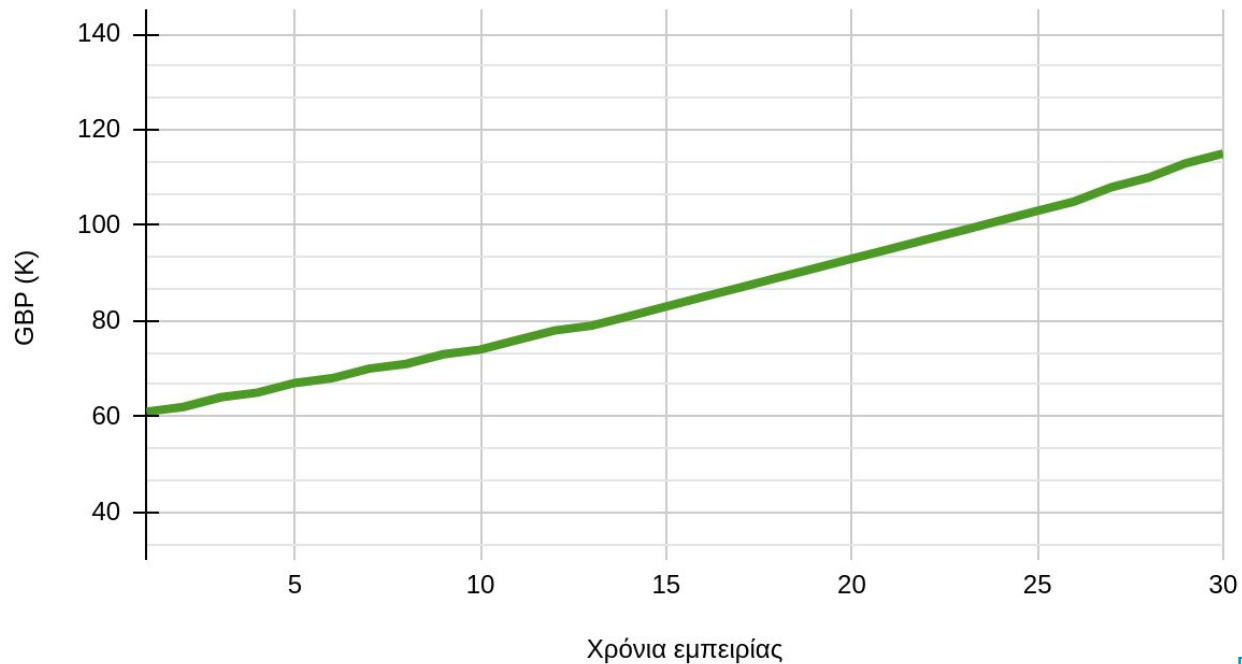
amazon-web-services

linux

go

python

— Μέσος ετήσιος μισθός (προ φόρων)



Μισθός

london, uk



backend developer

graduate degree (e.g. ma, ms)

postgresql

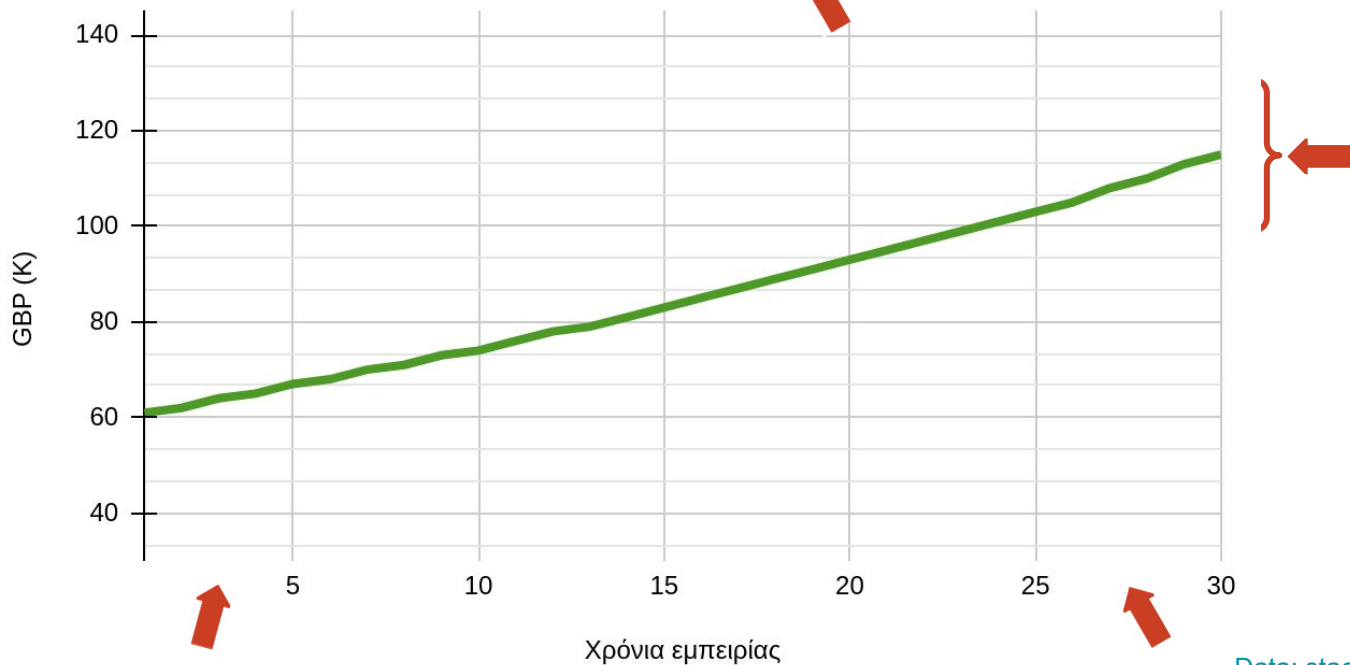
amazon-web-services

linux

go

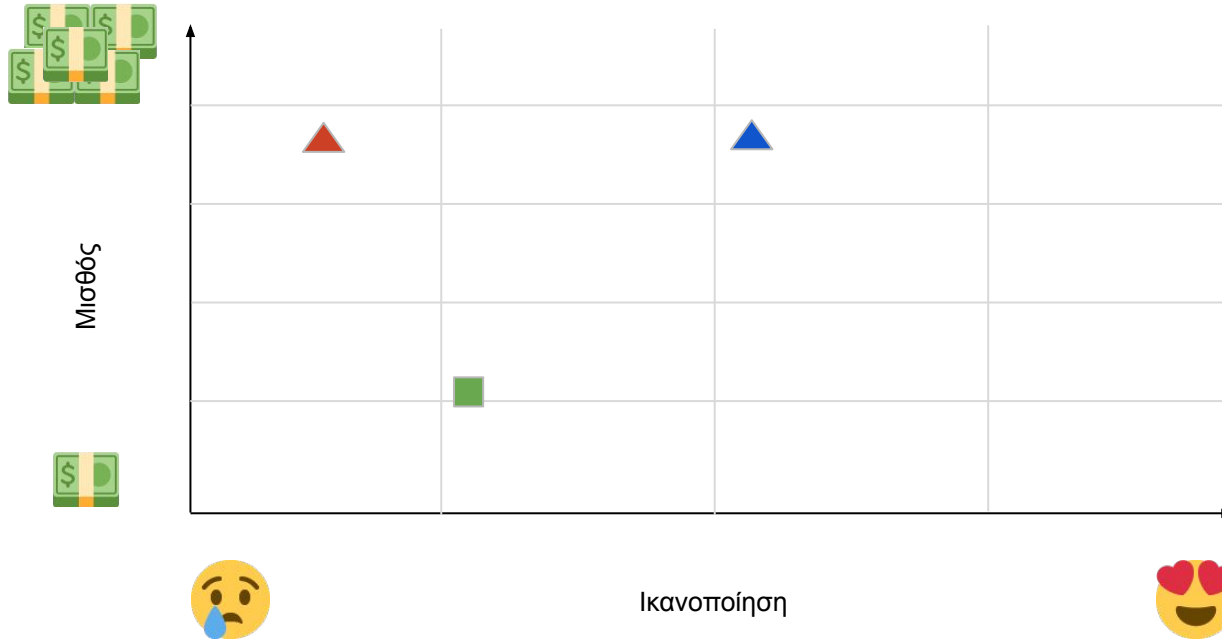
python

— Μέσος ετήσιος μισθός (προ φόρων)



* ΠΑΓΙΔΕΣ

Πού βρίσκομαι;



Remote work

Χρήσιμα

- Πειθαρχία
- Εμπειρία από γραφείο
- Οξυμένες επικοινωνιακές δεξιότητες

Να έχετε κατά νου

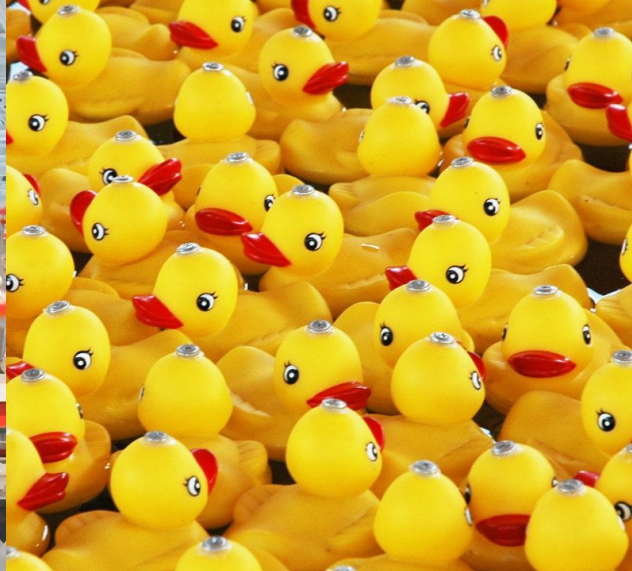
- Έλλειψη κοινωνικής επαφής
- Κρυφά κόστη (γραφείο, +1 δωμάτιο, θέρμανση)
- Ωράριο

Ξένες γλώσσες, επικοινωνία + soft skills



“This study identified the top 10 soft skills as perceived the most important by business executives: integrity, communication, courtesy, responsibility, social skills, positive attitude, professionalism, flexibility, teamwork, and work ethic.”

Το σκάσιμο της νεραϊδόφουσας



αυτοματισμός

κορεσμός

οικονομικές κρίσεις

<https://flic.kr/p/asNpjj>

<https://flic.kr/p/1jUXr6>

<https://flic.kr/p/c68WbW>



Πα.Πει.

και επόμενα βήματα

Πα.Πει. VS Red brick & Ivy league



mit tuition fees

All Images News Maps Videos More

Settings Tools

About 11,000,000 results (0.65 seconds)

Massachusetts Institute of Technology / Undergraduate tuition and fees

53,790 USD

2019 - 20

People also search for



Harvard University
51,925 USD



Stanford University
53,529 USD



Yale University
55,500 USD

Sources include: IPEDS

Feedback

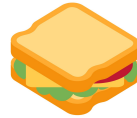
ShanghaiRanking's Global Ranking of Academic Subjects 2020 - Computer Science & Engineering

Field:	Engineering	Subject:	Computer Science & Engineering
World Rank	Institution*	Country/Region	National/Regional Rank
1	Massachusetts Institute of Technology (MIT)		1
2	Stanford University		2
3	University of California, Berkeley		3
4	Carnegie Mellon University		4
5	ETH Zurich		1
6	Harvard University		5
7	Tsinghua University		1
8	Nanyang Technological University		1
9	University of Toronto		1
10	University of Oxford		1
11	University of California, Los Angeles		6
12	Princeton University		7
13	University of Technology Sydney		1
14	Cornell University		8
15	University of Southern California		9
16	The University of Texas at Austin		10
17	University of North Carolina at Chapel Hill		11
18	National University of Singapore		2
19	Shanghai Jiao Tong University		2
20	Zhejiang University		3
21	Harbin Institute of Technology		4
22	The Chinese University of Hong Kong		1
23	University College London		2
24	Peking University		5
25	University of Science and Technology of China		6

MSc + δίδακτρα



MSc + κόστος ζωής



Προγραμματισμός

Εκτεθείτε στον προγραμματισμό, η γλώσσα δεν έχει τόσο μεγάλη σημασία



bash



JavaScript

...ή ότι σας τραβήξει το ενδιαφέρον

SQL

“All data platforms have embraced SQL-style APIs as the predominant way to query and retrieve data.”

https://db.cs.washington.edu/events/other/2018/Seattle_DBResearch_Report-Full.pdf “The Seattle Report on Database Research”

Open source projects / Google Summer of Code

Ανοίξτε τους ορίζοντές σας, εκτεθείτε σε συνεργασίες

1. Βρείτε οργανισμούς / project που σας ενδιαφέρουν
2. Δοκιμάστε
 - Ετοιμάστε το dev περιβάλλον σας
 - Επικοινωνήστε με τους developers / κοινότητα (slack/ mailing list)
 - Βρείτε 1-2 απλά bugs
 - Δοκιμάστε (commits)

<http://www.catb.org/~esr/faqs/smart-questions.html> “How To Ask Questions The Smart Way”

<https://python-gsoc.org/index.html#gettingstarted> “Python Summer of Code - How do I get started?”

http://blog.gerv.net/2006/05/how_not_to_apply_for_summer_of/ “How Not To Apply For Summer Of Code”

Open source + ορίζοντες

“I quickly found that the structures and their usage [...] are way too complex to keep in your head just based on reading the code. Additionally it's only really possible to hope you've understood the structure correctly just based on reading”

<https://blog.jcole.us/2013/01/02/on-learning-innodb-a-journey-to-the-core/> “On learning InnoDB: A journey to the core” Jeremy Cole

https://github.com/jeremycollection/innodb_ruby

Η πρώτη μου δουλειά 🙌

Πολλοί θα αγνοήσουν ή απορρίψουν την αίτηση μου. **Θα συμβεί!**

“2+ χρόνια προϋπηρεσία” αγνοήστε το (ειδικά αν έχετε commits/internship/GSOC).

Για αρχή ψάξτε για ένα υγιές περιβάλλον που μπορείτε να μάθετε.

ΨIT:

- Την μεγαλύτερη αύξηση θα την πάρετε αλλάζοντας δουλειά. Διαπραγματευτείτε προσεκτικά από την αρχή.
- Είναι OK να μην βρείτε τον σούπερ μισθό με την πρώτη. **Θα συμβεί!**
- Ψάξτε για την επόμενη δουλειά αν κάτι δεν σας ικανοποιεί.

Κάντε την έρευνά σας

<https://www.adzuna.co.uk/> (.com, .fr, .it, κτλ)

<https://gr.indeed.com> (.co.uk, .fr, .it, κτλ)

<https://www.glassdoor.com>

<https://stackoverflow.com/jobs/>

Remote work

<https://github.com/fossjobs/fossjobs/wiki/resources#job-aggregators>

<https://weworkremotely.com/>

<https://remoteintech.company/>

Η αγορά εργασίας

- Ο χώρος της πληροφορικής είναι προνομιακός
- Πα.Πει. ένα καλό βήμα από τα πολλά που θα κάνετε
- Ανοίξτε τους ορίζοντές σας
 - open source contributions / Google Summer of Code
 - Internship
- Αναλογιστείτε την καριέρα σας τακτικά και για διαφορετικές χρονικές κλίμακες
 - <https://lethain.com/forty-year-career/> “A forty year career.”
 - + “Bert Hubert - Career Development & Money” (σε άλλο slide)

App Definition and Development

Database | **Streaming & Messaging** | **Application Definition & Image Build** | **Continuous Integration & Delivery**

Orchestration & Management

Scheduling & Orchestration | **Coordination & Service Discovery** | **Remote Procedure Call** | **Service Proxy** | **API Gateway** | **Service Mesh**

Runtime

Cloud Native Storage | **Container Runtime** | **Cloud Native Network**

Provisioning

Automation & Configuration | **Container Registry** | **Security & Compliance** | **Key Management**

Πληροφορική



τάσεις και πλοήγηση



Platform

Certified Kubernetes - Distribution

Certified Kubernetes - Hosted

Certified Kubernetes - Installer

PaaS/Container Service

Kubernetes Training Partner

Observability and Analysis

Monitoring

Logging

Tracing

Chaos Engineering

Serverless

Members

Πλοήγηση



Απλό / Πολύπλοκο

“Simplicity is a great virtue but it requires hard work to achieve it and education to appreciate it. And to make matters worse: complexity sells better.”

[EW Dijkstra Archive: On the nature of Computing Science \(EWD 896\)](#)

Keep It Simple Stupid (KISS)

Πολύπλοκο / Απλό

Μην συγχέουμε το απλό με το απλοϊκό. Η πολυπλοκότητα είναι μέρος του πραγματικού κόσμου

“The point I am trying to make in this article is that sometimes **it's the problem domain itself that's complex** and convoluted. In short, it's a spaghetti domain.”

<https://250bpm.com/blog:36/> “In the Defense of Spaghetti Code”

Βαρετό

Boring technology

“It’s important to master the tools that you do pick.”

<http://boringtechnology.club/> (Dan McKinley)

<https://youtu.be/65q1c7qbRtl> “Interview with Dan McKinley - Velocity New York 2015”

“The Virtues of Boring Technology”, Kristian Köhntopp (not publicly available)

Μόδα

- Προσέξτε την απομόνωση



- Προσέξτε το trendy



“I’d like to see less Docker 101 and more Docker WTFs [...] I’d like to discuss the pros and cons so we can make a better decisions”

https://youtu.be/zGw_xKF47T0 “The Container Operator’s Manual - Velocity NY 2018”

Τάσεις



Public Cloud

“Cost reduction was not the main reason we decided to move to the cloud.”

“The cloud also allowed us to significantly increase our service availability.”

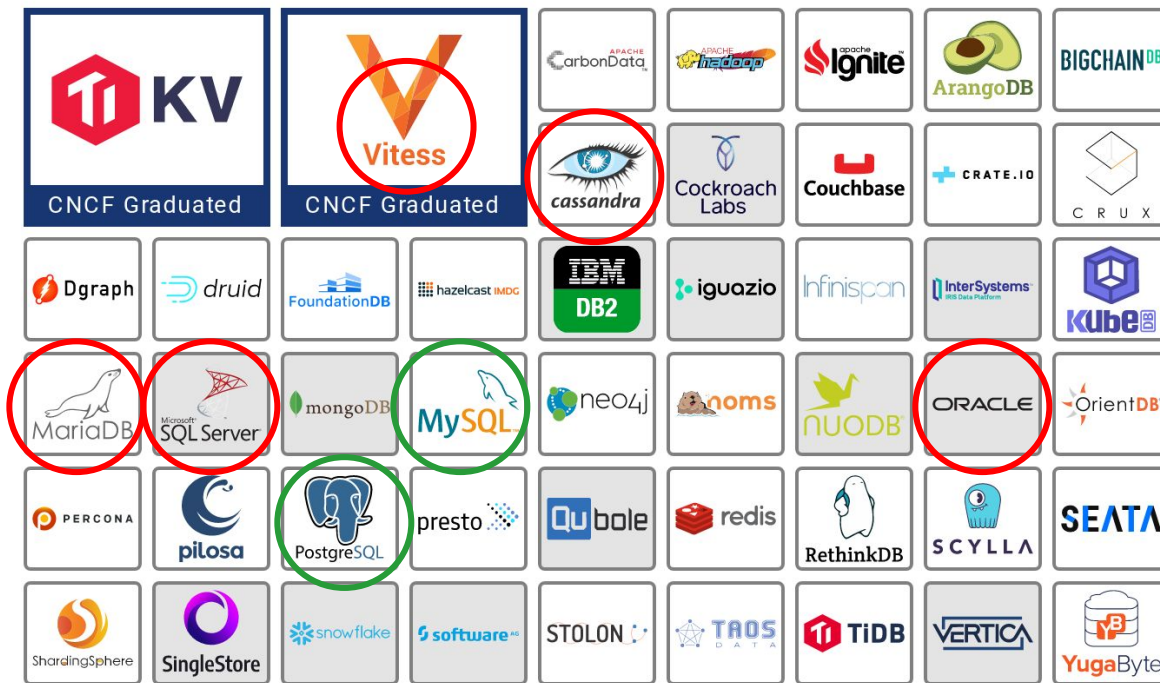
<https://about.netflix.com/en/news/completing-the-netflix-cloud-migration> “Completing the Netflix Cloud Migration”



Databases

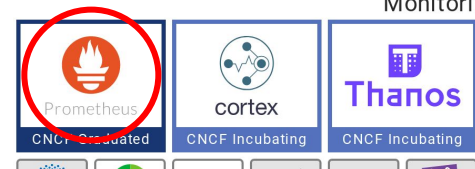
Database

App Definition and Development



Observability and

Monitoring



Logging

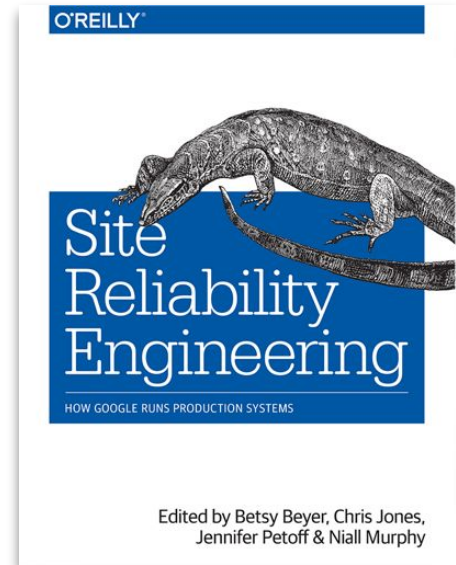


DevOps - SRE

[Site Reliability Engineering \(SRE\) book](#)

[How to Get Into SRE – Alice Goldfuss](#)

[dastergon/awesome-sre: A curated list of Site Reliability and Production Engineering resources.](#)



Distributed Systems: monitoring + observability

“You can’t improve what you can’t measure.
You can’t measure what you can’t observe”

<https://youtu.be/zLjhFrUhqxg> “Baron Schwartz, What Should I Monitor, And How Should I Do It?”

<https://youtu.be/fBDI7F9Pjll> “Baron Schwartz: Monitoring Is Not Observability”

<https://youtu.be/M2IHEmObc2k> “Fueling system discovery with observability | Charity Majors (Honeycomb)”

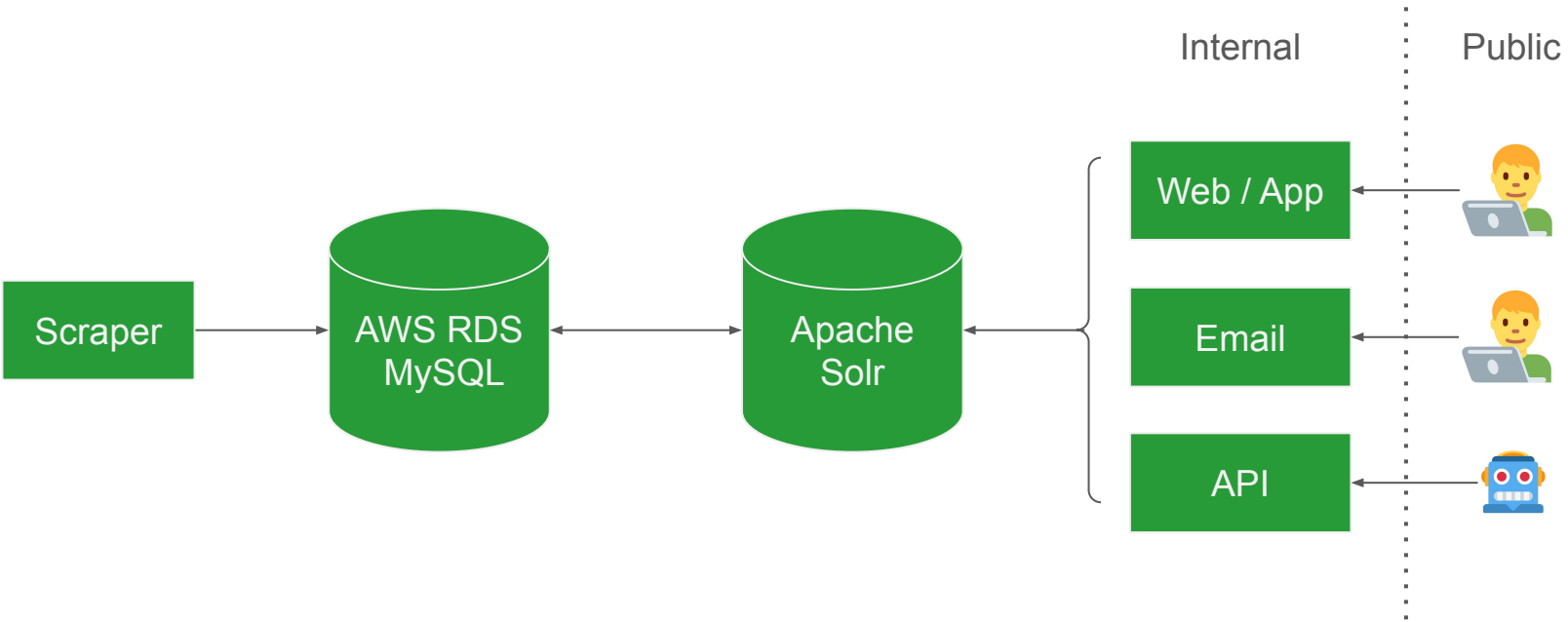
<https://youtu.be/1NHbPN9pNPM> “Post Hype Microservices with Bryan Cantrill”

Τεχνολογία

- Εκτιμήστε το απλό
- Προσέξτε τη μόδα
- Εξασκηθείτε στον προγραμματισμό
- Εκτεθείτε: SQL & system administration



Databases



Distributed workload



Data science

Internal APIs:

- Job categorization
- Salary estimation
- Recommended jobs
- Automated partner network bidding

Public APIs:

- CV evaluation

Νούμερα

- TLDs: 16
- Traffic: ☆☆☆M visits/month
- Machines: ☆☆☆
- Web scraper: ☆M ads/day
- Database: ☆TB storage, ☆☆☆K queries/sec, read latency < 2ms
- Sent: ☆M emails/day

- In 2020, we estimate we have helped 0.5M people find jobs 🎉

776 python sql Jobs in x +

adzuna.com/search?q=python%20sql&w=New%20York

Login / Register Advertise

adzuna @ python sql New York

e.g. job, company, title e.g. city, state or ZIP code advanced search

Jobs » Python sql Jobs in New York

776 Python sql Jobs in New York

Related searches: python, sql, python developer, sql analyst, sql developer, ... more »

Salary \$0 to \$150,000 per annum

Receive the newest jobs for this search by email: your.email@domain.com Create alert

776 Python sql Jobs in New York currently available

By creating an alert, you agree to our [T&Cs](#) and [Privacy Notice](#), and [Cookie Use](#).

Results 1-10 of 776 Show 10 per page and sort by Most relevant

\$132,442 Average salary for Python sql Jobs in New York

100 million Dollar Software Company Needs Data Engineer (Python, SQL, JVM Language)

Remote jobs Location US Category IT Jobs (532)

634 python sql Jobs in x +

adzuna.co.uk/jobs/search?q=python%20sql&loc=86384&ac_where=1

Login Register Post job

adzuna @ python sql London, UK

What? @ python sql Where? London, UK Search Advanced

634 Python sql Jobs in London

Average salary £62,032

Receive the newest jobs for this search by email: your.email@domain.com Create alert

Filter results Data Developer Python SQL - WiFi £55000 - £70000 PER ANNUM + BENEFITS

406 python sql Jobs in x +

adzuna.de/search?q=python%20sql&loc=98081&ac_where=1

Anmelden / Registrieren

adzuna @ python sql Deutschland

z. B. Job, Unternehmen, Branche z. B. Stadt, Bundesland oder PLZ Erweiterte Suche

Jobs » Python sql Jobs in Deutschland

406 Python sql Jobs in Deutschland

Verwandte Suchvorgänge: python-programmierer, sql-programmierer, pl sql entwickler

Remotes arbeiten Standort Deutschland (406) Kategorie IT-Stellen (182)

Die neuesten Jobs für diese Suche kostenlos per Email: ihre.email@domain.com Job-E-Mail bestellen

406 Python sql Jobs in Deutschland verfügbar

Wenn Sie eine Job-E-Mail abonnieren stimmen Sie unseren [AGB](#) und [Datenschutzhinweisen](#), sowie [Cookienutzung](#) zu.

Ergebnisse 1-10 von 406 10 pro Seite anzeigen Relevanteste v. sortieren

Betroffen von Covid-19? Finde hier hunderte von remoten Jobs

Softwareentwickler (w/m/d) Datenanalyse C/Python/SQL - Anwendungsentwicklung, Datenbankentwicklung

AVM GMBH - BERLIN

get in IT

- Ausgeprägte Programmierkenntnisse in C, Python, SQL sowie idealerweise in R Freu Dich drauf: - Zukunftsweisendes Unternehmen mit familiärer Unternehmenskultur - Ein Arbeitsmittel zum ...

Remote Jobs

Senior Software Engineer - SAS, Python, ETL, SQL - Stuttgart

VENTURI GERMANY GMBH - STUTTGART, 70173

XING

About us With Venturi, you get access to local and international tech talent with unique in-demand skills. Whether your goal is to upgrade your legacy software system, create an application or build a team for

ValueMyCV Jetzt Lebenslauf hochladen und Marktwert erfahren

Jetzt festen

Backend Softwareentwickler Python(m/w/d) Taledo GmbH

634 python sql Jobs in x +

adzuna.fr/search?q=python%20sql&loc=122917&ac_where=1

Connexion / Enregistrer

adzuna @ python sql France

ex. poste, entreprise, métier ex. ville, région ou code postal recherche avancée

Emplois » Emplois python sql - France

362 emplois python sql - France

Recherches liées: python, développeur sql, développeur python, informaticien, ingénieur, ... plus »

Salary 60 à €150 000 par an.

Receive the latest offers for this search by mail: votre.email@domain.com Créer une alerte

362 emplois python sql - France

En créant une alerte email, vous acceptez nos [Termes et Conditions](#), [Avis de Confidentialité](#), et [Publication de cookies](#).

Résultats 1-10 de 362 Montrer 10 par page et trier par Le plus pertinent

39 035 € Salaire moyen pour les emplois python sql - France

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