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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
- Σημαίες: 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





Oadzuna

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Adzuna - zero in on the right role





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To stay safe in your job search and flexible work we recommend that you visit JobsAware for information and to get free, expert advice for safer work.

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Popular categories	Popular locations	Popular searches
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Hospitality and catering jobs	Glasgow	Warehouse jobs
Maintenance jobs	Liverpool	Retail jobs
Logistics and warehouse jobs	Manchester	Driver jobs
Healthcare and nursing jobs	Leeds	<u>Labourer jobs</u>

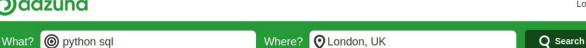
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Advanced





645 Python sql Jobs in London





Create alert

Filter results

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

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

JOBSWORTH: £ 46.837 P.A. - AUSTIN FRASER - LONDON, LONDON

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 ...

experteer

Related searches



Python/ SQL Developer

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 ...









"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 ($\sigma\eta\mu$ H Π A) 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)





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

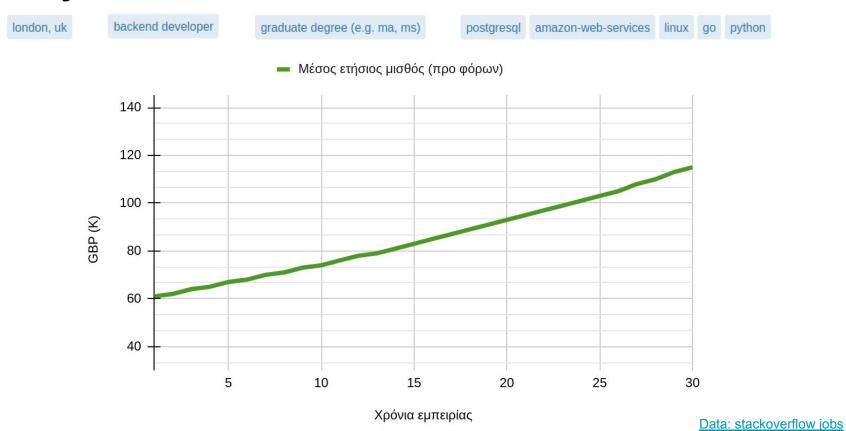
* ICT (Information and Communication Technology)

Έλλειψη προσωπικού

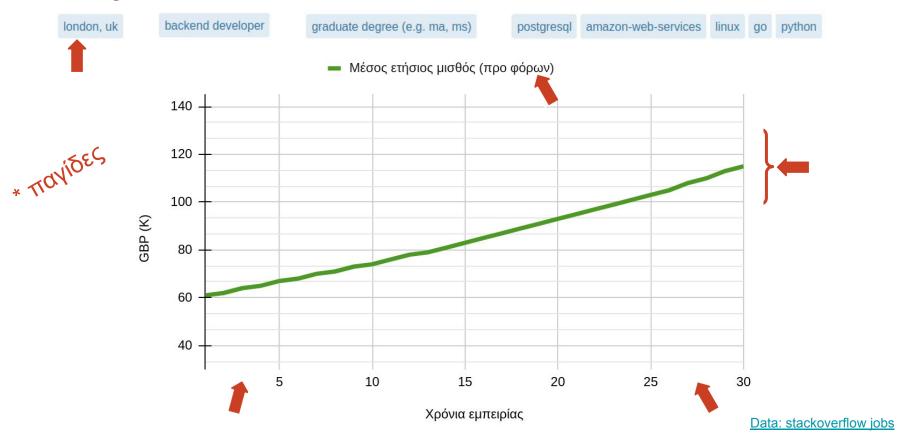
"shortages of IT specialists are forecasted to reach around 500,000 by 2020 and we estimate that Europe would need 50,000 new high-tech leaders each year till 2025".

http://eskills-scale.eu/fileadmin/eskills scale/all final deliverables/scale e-leadership agenda final.pdf

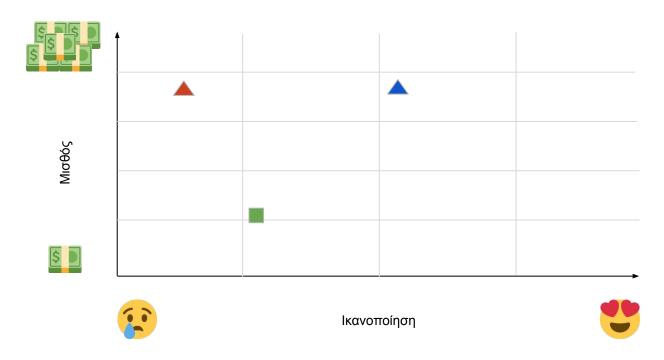
Μισθός



Μισθός



Πού βρίσκομαι;



https://youtu.be/Lf-LljB2EYk "Bert Hubert - Career Development & Money - NLNOG Live! September 2020"

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



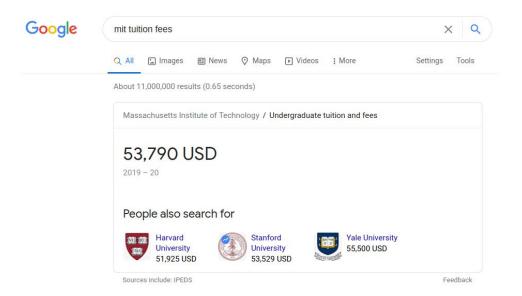


"This study identified the top 10 soft skills as perceived the most important by business executives: integrity, communication, courtesy, responsibility, social skills, positive attitude, professionalism, flexibility, teamwork, and work ethic."

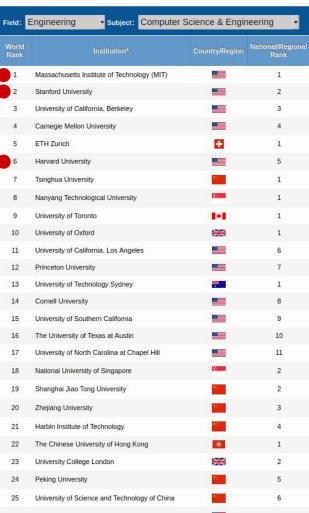




Πα.Πει. VS Red brick & Ivy league



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



Science & Engineering | Shanghai Ranking - 2020

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/jeremycole/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.

ЧІТ:

- Την μεγαλύτερη αύξηση θα την πάρετε αλλάζοντας δουλειά.
 Διαπραγματευτείτε προσεκτικά από την αρχή.
- Είναι ΟΚ 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

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

<u>https://gr.indeed.com</u> (.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)

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/65qlc7qbRtl "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"



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"















HETZNER

Databases

Development

and

Definition

App

Database





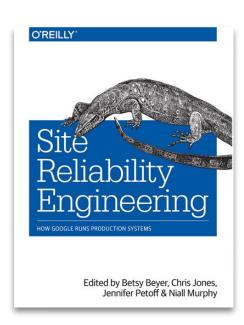


DevOps - SRE

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/zLjhFrUhqxq "Baron Schwartz, What Should I Monitor, And How Should I Do It?"

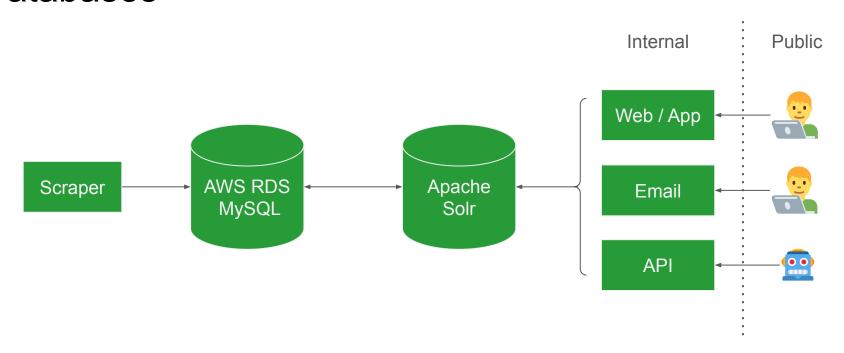
https://youtu.be/fBDI7F9Pjll "Baron Schwartz: Monitoring Is Not Observability"
https://youtu.be/M2IHEmObc2k "Fueling system discovery with observability | Charity Majors (Honeycomb)"
https://youtu.be/1NHbPN9pNPM "Post Hype Microservices with Bryan Cantrill"

Τεχνολογία

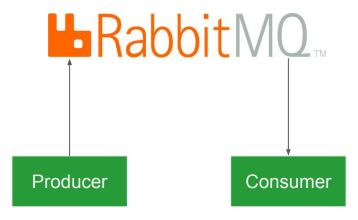
- Εκτιμήστε το απλό
- Προσέξτε τη μόδα
- Εξασκηθείτε στον προγραμματισμό
- Εκτεθείτε: SQL & system administration



Databases



Distributed workload



Data science

Internal APIs:

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

Public APIs:

CV evaluation

Νούμερα

- TI Ds: 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



