Information technology

& the job market

2022 Feb

University of the Peloponnese - Esda Laboratory

https://flic.kr/p/ow7YWn

- Εισαγωγή
- Τάσεις στην αγορά εργασίας (40 χρόνια)
- Η εξαίρεση της πληροφορικής
- Πανεπιστήμιο & επόμενα βήματα
- Η 1η μου δουλειά

Adzuna is lending the time to prepare and present this talk

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
- Σημαίες: Wikipedia articles

Βαγγέλης Κατσικάρος

- Head of infrastructure
- Infrastructure engineer
- Backend engineer & DB administrator

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

Summer of Code

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

Find a job

Sign in Create account Employers Cymraeg

Tell us about this service – your feedback will help us to improve it.

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

JobsAware
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.

Find an apprenticeship
Like the idea of becoming an apprentice? Use Find an apprenticeship to search, register and apply for apprenticeship vacancies.

Jobseekers from abroad
Before applying for jobs please check whether you need a visa to work in the UK.

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 »

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adzuna

Login Register Post job

What? python sql Where? London, UK Search Advanced

645 Python sql Jobs in London

Average salary
£61,997

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

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 ...

- TLDs: 20
- Traffic: ☆☆M visits/month
- Web scraper: ☆☆M ads/day
- Partner network: ☆☆G ads/day
- User facing DB: ☆TB storage
- Sent: ☆M emails/day
- Machines: ☆☆☆

In 2020-21, we estimate we have helped 1M people find jobs 🎉

Η αγορά εργασίας

https://flic.kr/p/4iCHu1

Οι συνθήκες στην αγορά εργασίας

δεν είναι ιδανικές

https://flic.kr/p/Z5b21b

“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”

https://www.inegsee.gr/wp-content/uploads/2020/10/Ethsia_Ekthesi_2020_INEGSEE.pdf “Η ελληνική οικονομία και η απασχόληση - Ετήσια Έκθεση, Ινστιτούτο Εργασίας ΓΣΕΕ”, 2020

“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%”

βλ. προηγούμενη πηγή

“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”, IMF, 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

1992-2016: “While real annual wages grew by a total of 20% in the top decile, they did not change in the fifth and sixth deciles, and in the two lowest deciles they decreased by around 35%”

https://www.diw.de/documents/publikationen/73/diw_01.c.579137.de/dwr-18-09-1.pdf “Inequality in Germany: decrease in gap for gross hourly wages since 2014, but monthly and annual wages remain on plateau”, DIW, 2018

“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”, Save the Children, 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/pdf/R/R45090/13 “Real Wage Trends, 1979 to 2018”, US Congressional Research Service, 2018

https://flic.kr/p/2PQZ5R

Η πληροφορική
είναι από τις εξαιρέσεις

Έλλειψη προσωπικού

“One in 5 enterprises employed Information and Communication Technology specialists”

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

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 specialists - statistics on hard-to-fill vacancies in enterprises”, Eurostat, 2018

Έλλειψη προσωπικού

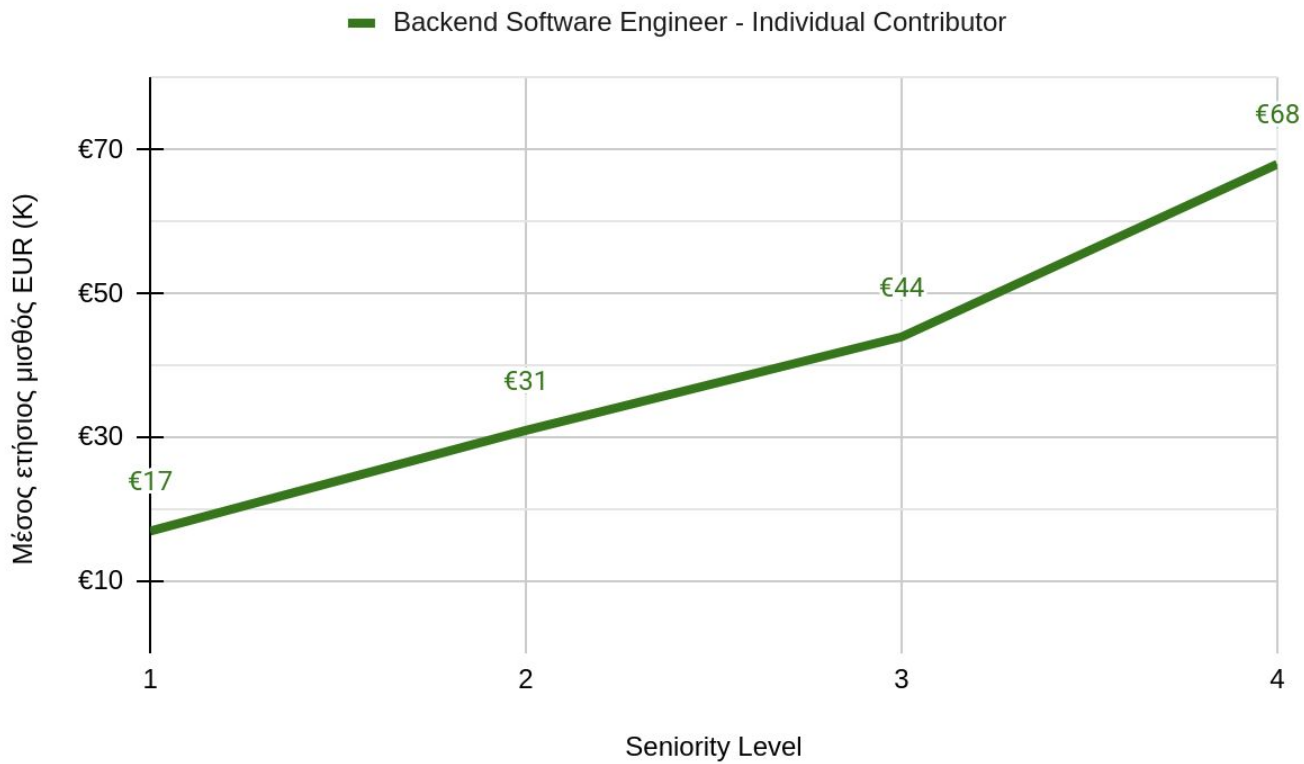
2015: “Europe could face a shortage of more than 800,000 skilled ICT workers by 2020”

https://ec.europa.eu/commission/presscorner/detail/en/speech_15_4770 “Turning Europe digital, preparing for future growth”, Andrus Ansip - Executive Vice President of the European Commission for A Europe Fit for the Digital Age, 2015

2017: “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 “High-Tech Leadership Skills for Europe”, European Commission, 2017

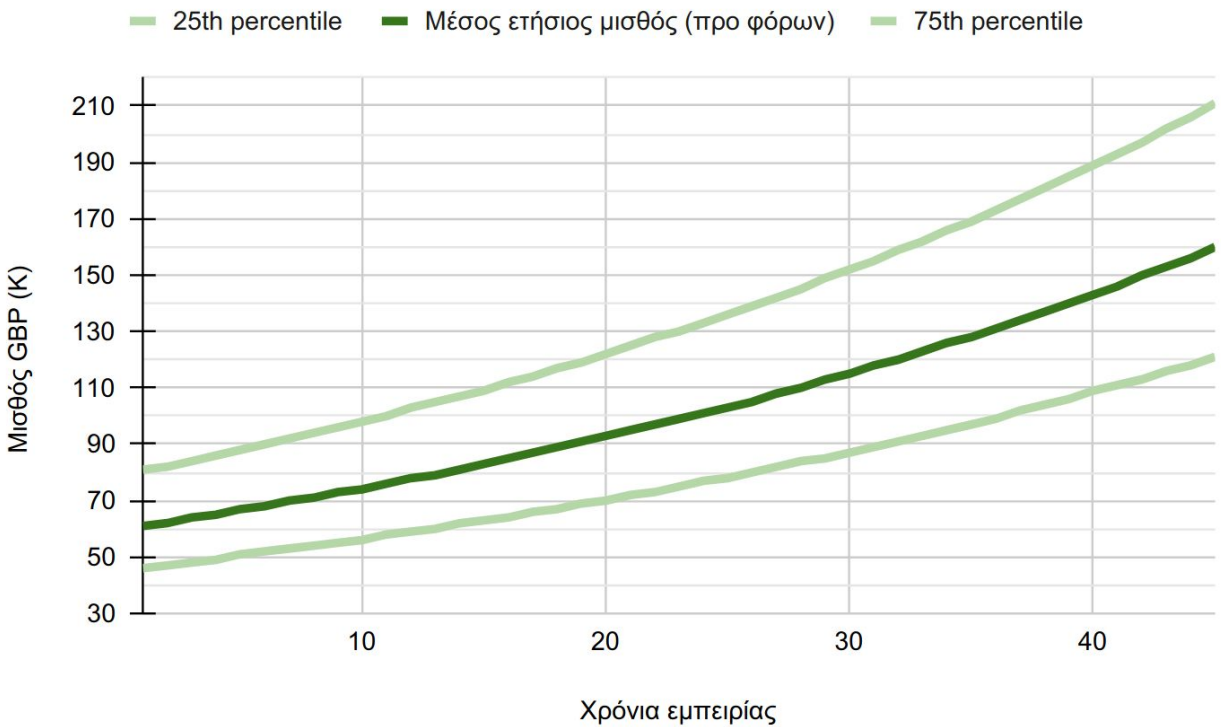
Μισθός - Ελλάδα



https://marathon.vc/blog/2021-greek-startups-tech-compensation-report , 2021

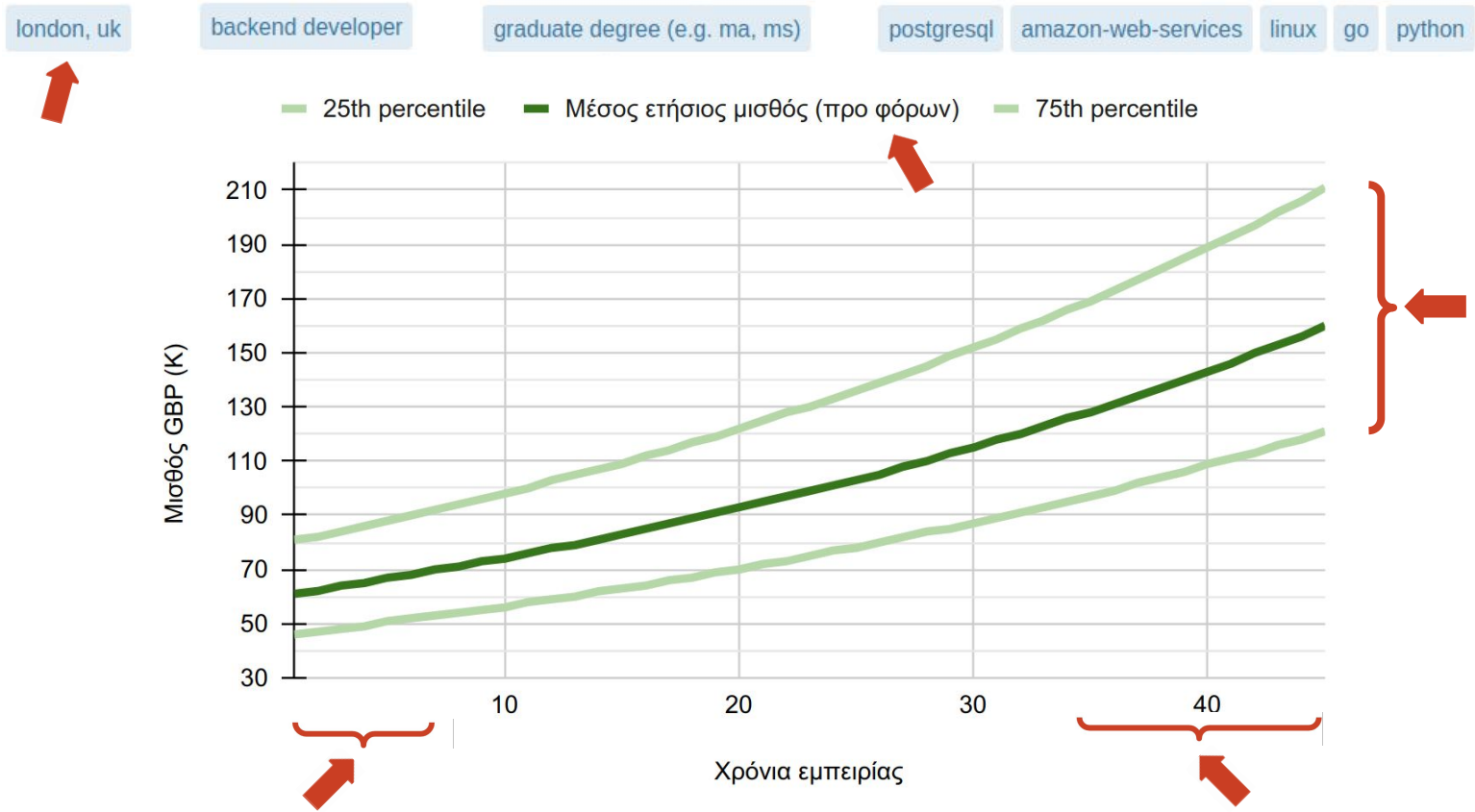
Μισθός - UK

london, uk | backend developer | graduate degree (e.g. ma, ms) | postgresql | amazon-web-services | linux | go | python



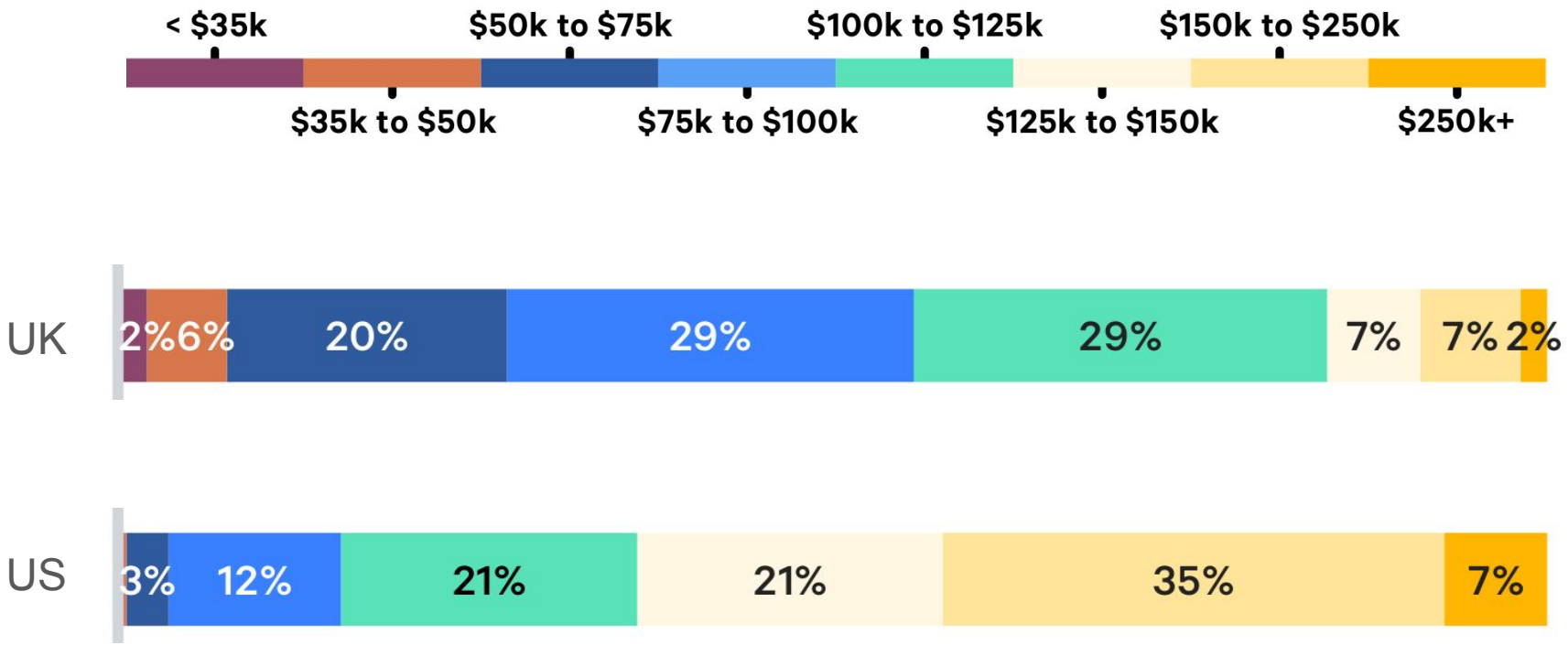
https://stackoverflow.com/jobs/salary & Chart data, 2019

Μισθός - UK



https://stackoverflow.com/jobs/salary & Chart data, 2019

Μισθός - UK vs US



https://puppet.com/resources/report/2020-state-of-devops-report/ , 2020

Top-tier

“Basecamp pays in the top 10% of the industry based on San Francisco rates. Same position, same pay, no matter where you live. The salary for this position is $134,257 (for Systems Admin) or $167,962 (for Senior Systems Admin)”.

https://m.signalvnoise.com/basecamps-ops-team-is-hiring/ “Basecamp’s Ops Team is Hiring”, Basecamp, 2020

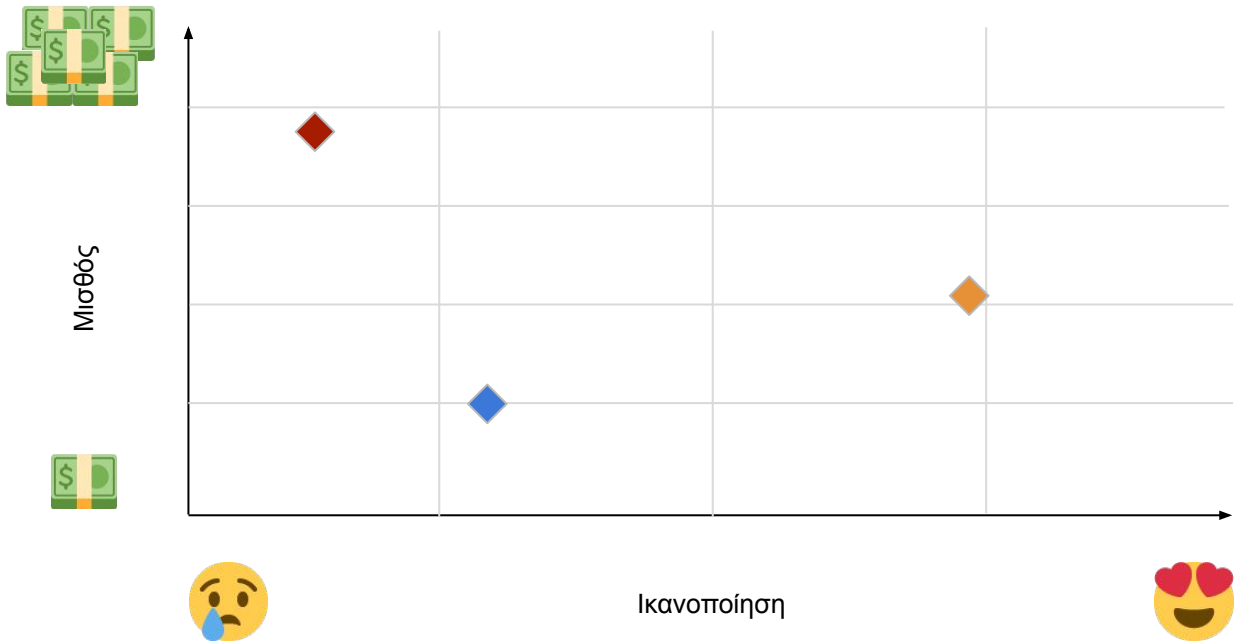
“salaries in our privileged domain have gotten much higher than our $175,000 (and indeed, many at Oxide have taken a cut in pay to work here)”.

https://oxide.computer/blog/compensation-as-a-reflection-of-values/ “Compensation as a Reflection of Values”, Oxide Computer, 2021

Top-tier - Big Tech

https://www.levels.fyi/charts.html, 2021

Πού βρίσκομαι;



https://youtu.be/Lf-LljB2EYk “Bert Hubert - Career Development & Money - NLNOG Live!”, 2020

Remote work

Χρήσιμα

- Πειθαρχία
- Οξυμένες επικοινωνιακές δεξιότητες
- Εμπειρία από γραφείο

Να έχετε κατά νου

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

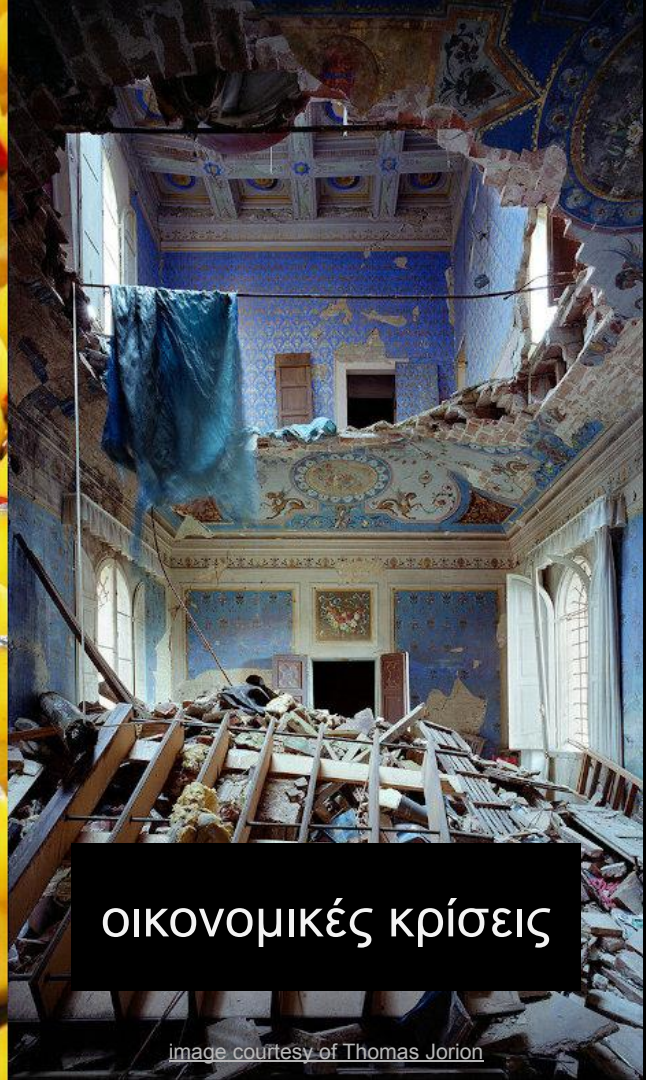
https://youtu.be/DjKCTIWsx0c “Top tier Remote (Thanasis Polychronakis) - GreeceJS #16”, 2017
http://ergo.human.cornell.edu/default.html “Cornell University Ergonomics Web”

αδιέξοδα

https://flic.kr/p/2GmoX

κορεσμός

https://flic.kr/p/jUXf6

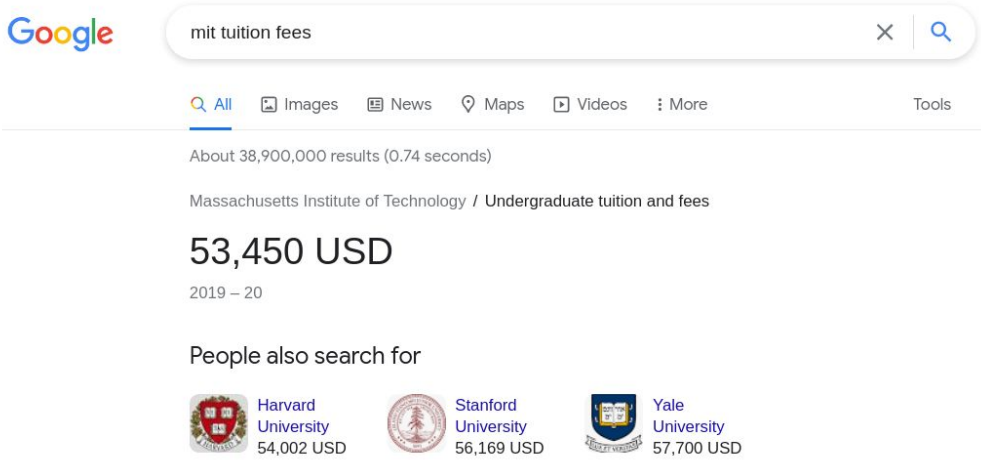


οικονομικές κρίσεις

image courtesy of Thomas Jorion

Πανεπιστήμιο
και επόμενα βήματα

Red brick & Ivy league

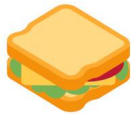


1	Massachusetts Institute of Technology (MIT)	
2	Stanford University	
3	University of California, Berkeley	
4	Carnegie Mellon University	
5	ETH Zurich	
6	Tsinghua University	
7	Harvard University	
8	Nanyang Technological University	
9	University of Oxford	
10	University of California, Los Angeles	

Science & Engineering | Shanghai Ranking, 2022

MSc + δίδακτρα

MSc + κόστος ζωής



Ενδεικτικά (και με προσοχή):
https://www.numbeo.com/cost-of-living/, “Numbeo is the world’s largest cost of living database”
https://www.mylifeelsewhere.com/cost-of-living/compare-cities, “Compare countries and cities around the world”

Προγραμματισμός

Εκτεθείτε στον προγραμματισμό, η γλώσσα δεν έχει τόσο μεγάλη σημασία

Ενδεικτικά και μόνο αναφέρω: python, java, go, bash, javascript

https://exercism.io/, “Code practice and mentorship for everyone”

Βασικές τεχνικές δεξιότητες

Network (TCP, HTTP)

SQL

Linux cli

Computer architecture

https://missing.csail.mit.edu, “The Missing Semester of Your CS Education”
https://wizardzines.com/, “programming zines”, Julia Evans
https://training.linuxfoundation.org/training/introduction-to-linux/, “Introduction to Linux (LFS101x)”, The Linux Foundation
Ops School Curriculum — Ops School Curriculum 0.1 documentation, “Ops School Curriculum”

Open source projects

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://jvns.ca/blog/good-questions/ “How to ask good questions”
https://stackoverflow.com/help/how-to-ask “ How do I ask a good question?”
https://andre.arko.net/2016/11/12/how-to-contribute-to-open-source/ “How to Contribute to Open Source”
https://python-gsoc.org/index.html#gettingstarted “Python Summer of Code - How do I get started?”

Google Summer of Code

“Google Summer of Code gives university students the opportunity to gain real-world experience by working on a three month coding project with one of more than 200 open source organizations under the guidance of a mentor.”

https://buildyourfuture.withgoogle.com/programs/summer-of-code/ “Google Summer of Code”
http://blog.gerv.net/2006/05/how_not_to_apply_for_summer_of/ “How Not To Apply For Summer Of Code”

Παρόμοια προγράμματα

- Season of Docs, https://developers.google.com/season-of-docs
- Season of KDE, https://season.kde.org/
- Outreachy, https://www.outreachy.org/
- Tweag Open Source Fellowship, https://www.tweag.io/blog/2020-02-14-os-fellowship/
- Summer of Nix, https://summer.nixos.org/
- ~~Rails Girls Summer of Code, https://railsgirlssummerofcode.org/~~

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.”

https://journals.sagepub.com/doi/abs/10.1177/1080569912460400 “Executive Perceptions of the Top 10 Soft Skills Needed in Today’s Workplace”

Η πρώτη μου δουλειά

https://flic.kr/p/rcDDoZ

Requirements

“Required Technical and Professional Expertise:

Minimum 12+ years’ experience in Kubernetes administration and management.

Hands-on experience on setting up Kubernetes platform, deploying microservices and other web applications [...]”

https://www.theregister.com/2020/07/13/ibm_kubernetes_experience_job_ad/ “IBM job ad calls for 12 years’ experience with Kubernetes – which is six years old” Simon Sharwood

Requirements

Δεν χρειάζεται να πληροίτε το 100% των προαπαιτούμενων

“2+ χρόνια προϋπηρεσία” αγνοήστε το - ειδικά αν έχετε commits, internship, GSOC

Φορολογικά + Ασφαλιστικά

Μάθετε πόσα λεφτά θα μείνουν στην τσέπη σας.

Ενημερωθείτε για τις διαφορές μισθωτού / ελεύθερου επαγγελματία.

Αν βρείτε εργοδότη στο εξωτερικό μάθετε για το καθεστώς του ΦΠΑ.

Αν σας προσφέρουν μετοχές ενημερωθείτε για τη φορολογία τους.

https://blog.pragmaticengineer.com/equity-for-software-engineers/ “Equity 101 for Software Engineers at Big Tech and Startups”, Gergely Orosz

Η αίτηση σας και θα αγνοηθεί και θα απορριφθεί 😱

Αποστολή

Απάντηση

Τελική προσφορά

Στόχοι για την 1η δουλειά

Είναι ΟΚ να μην βρείτε τον σούπερ μισθό με την πρώτη. Θα συμβεί!

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

Επόμενα βήματα

Ζητήστε εκπαιδευτικό υλικό (βιβλία, μαθήματα, video, και φυσικά χρόνο).

Ζητήστε να δουλέψετε με senior μέλος της ομάδας.

Ψάξτε για την επόμενη δουλειά αν κάτι δεν σας ικανοποιεί.

Εξασκηθείτε στις συνεντεύξεις και να γνωρίζετε τι παίζει στην αγορά.

Την μεγαλύτερη αύξηση θα την πάρετε αλλάζοντας δουλειά.

https://youtu.be/r8RxkpUvxK0 “What I Learned Doing 250 Interviews at Google”, Moishe Lettvin

Κάντε την έρευνά σας

Job boards

- 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/

Απευθειας στα site των εταιρειών που σας ενδιαφέρουν 🎯

- Ο χώρος της πληροφορικής είναι μισθολογικά προνομιακός
- Αναλογιστείτε την καριέρα σας τακτικά και για διαφορετικές χρονικές κλίμακες
- Το ελληνικό πανεπιστήμιο ένα καλό βήμα από τα πολλά που θα κάνετε
- Ανοίξτε τους ορίζοντές σας, ασχοληθείτε με open source projects
- Ψαχτείτε, κάντε συνεντεύξεις, μάθετε τι παίζει στην αγορά
- Αναζητήστε ένα υγιές περιβάλλον που μπορείτε να μάθετε

Ερωτήσεις;

https://flic.kr/p/pqiJNt