Nicolas Assouad

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fondation451

Skills

Language	TS, JS, Rust, OCaml, Python, C/C++
Framework	React, Next.js, Vue, Svelte, Angular
Database	MongoDb, PostgreSQL
Tool	Git, Docker
DevOps	GCP, AWS, Vercel, Deno Deploy, Ansible
Soft Skill	Management, Mentoring, Autonomy, Initiative, Communication

Professional experiences

10/2023 – Present **Senior Software Engineer (C#, TS, Angular, SQL, Git)**, *Lucca*, Paris

- Transfer of Compwise features inside Lucca's products

10/2022 – 10/2023 **Co-founder & CTO (TS, NodeJs, GCP run, MongoDb, React, Git, Docker, Entrepreneurship, User interview, UX research)**, *Compwise (bought by Lucca)*, Paris

Compwise is a platform for managing compensation policy.

- Fast execution, ideation to MVP: 1 month.
- 100+ user interviews done with HRs, CFOs, and CEOs.
- Design, architecture and implementation of the different versions of the platform.
- 100 000+ employee salary data collected to build our benchmark.
- 200 companies in free trial / 5 companies in paying plans.
- Bought by Lucca (*https://www.lucca.fr/blog/lucca-acquisition-startup-compwise/*)

09/2022 – 12/2022 **Founder in Residence (Entrepreneurship, User interview, UX research)**, *Entrepreneur First*, Paris

- €100k investment to support the growth of Compwise

05/2022 – 08/2022 **Senior Software Engineer (TS, NodeJs, AWS, Lambda, DynamoDb, React, Git)**, *Joko*, Paris

- Internationalization of the chrome extension and the web app.
- Conducting fit and technical interviews for new engineers.

07/2021 – 05/2022 **Senior Software Engineer (TS, NodeJs, Docker, Bash, Git, PostgreSQL, React, Python)**, *Mindmesh (YC S21)*, Paris

Mindmesh is an early stage international startup based in Boston and Paris which develop a productivity webapp for product managers.

- User research with the CEO and the CTO.
- Implementation of successive MVPs (3 pivots).
- Migration of the drive/slack/jira integrations from Python to Typescript fully typed.
- Migration of the rich text editor framework from Draft.js to Plate and open source contributions.
- Data visualization with D3.js.
- Enforce good practice (introduce strict Typescript option and linter in an existing codebase, code review).

09/2020 – 06/2021 **Software Engineer (TS, NodeJs, Docker, Bash, Git, MongoDb, React, GraphQL)**, *Cour de Cassation*, Paris

Inside the program "Entrepreneur d'Intérêt général", I worked in the Court of Cassation to open justice data.

- Conducted over 40 user interviews. Weekly meeting with the Court of Cassation's executive officers to set up the roadmap.
- Inside a pluridisciplinary team of 4 people, I led the design and the architecture of an open source application, LABEL, to annotate and anonymize justice decisions (*https://github.com/Cour-de-cassation/label*)
- Mentoring around software quality.
- First MVP released in 3 months.
- Best software development practices: mono-repository, high test coverage, strict typing, containerization.
- Used by 20 public agents daily, this new tool increased the number of annotated justice decisions per user and per day from 15 to 100.
- Succeeded handover, the project is still under active development.

02/2019 – 09/2020 **Software Engineer (JS, NodeJs, Docker, Bash, Git, MongoDb, Vue)**, *360Learning*, Paris

- Design, development, and production launch of the integrations to third party online courses platforms (Coursera, LinkedIn Learning, Udemy, Edx,...). Thousands of courses were synchronized daily.
- Redesign of the architecture of the connectors to the APIs. The time to develop a new connector for a new third party platform went down from 1 month of work to 2 days with a complete test coverage.
- More than 30 technical interviews realized for the the recruiting process of other software engineers.

03/2018 – 09/2018 **Research Intern (OCaml, C, Assembly, Maxima, Git)**, *LIP6, UPMC*, Paris

- Automatic memory consumption analysis of program with static analysis.
- Implemention a functional prototype for a subset of the OCaml language (*https://github.com/fondation451/ocaml_region*)

03/2017 – 09/2017 **Research Intern (OCaml, C, Assembly, Git)**, *OCaml Labs, Cambrigde University*, Cambrigde

- Design and development of an open source lock-free data structure library. A lock-free data structure is a data structure which can be used safely without lock or "mutex" in a parallel environment (*https://github.com/ocaml-multicore/lockfree*)

06/2016 – 08/2016 **Research Intern (JS, Python, SQL, Git)**, *STEEP, INRIA*, Grenoble

- Development of a web application implementing algorithms for projecting greenhouse gas consumption, constrained by different scenarios from the COP21. (*http://redem.inria.fr/*)

Education

2015 – 2018 **Master's degree, Computer science (MPRI) - "parcours normalien"**, *Ecole Normale Supérieure*, Paris

My studies focused on functional programming, compiler design, cryptography, networking and software engineering.

Languages

French Mother tongue

English Business fluent

Spanish Intermediate