Alexandre Djerbetian

Full Stack Software Craftsman

Software engineer with 6 years of experience
- **strong backend experience in NodeJS**
- **passionate advocate of Clean Code, TDD and DDD**
- **ramping up on NLP and model pretraining**

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EXPERIENCE

Research Software Engineer
4/2021 – ongoing

Google Israel
Machine Learning on Large Language Models
Stack: python + internal tools

- Worked on pretraining T5 for conversational bots

Software Architect
7/2018 – 2/2021

360Learning (30 developers)
Online learning platform - Leader in France
Stack: NodeJS, VueJS, MongoDB, Docker, TypeScript, Linux

- **Lead backend architect**
  - Increased test coverage from **25% to 70%**
  - Migrated 5 repositories to a single monorepo
  - Reduced average function size from **19 to 8 lines**
  - Empowered squads with domain driven design initiatives

- **Trained the team on state-of-the-art coding practices**
  - Held a **monthly book club** on code architecture and practices
  - **Onboarded 6 new members**, and confirmed 4 after their probation
  - Organised our attendance to the dotJS 2019 conference

- **Guest speaker in other companies**
  - See youtu.be/bT4fnb7XcuA for the talk at Evaneos (40 developers)

CTO
1/2017 – 2/2018

Libheros (5 developers)
Early stage startup - equivalent of Doctolib for nurses
Stack: NodeJS, AngularJS, Angular, Ionic, MySQL, php

- **Hired and managed a team of 5 developers**
  - Established systematic code reviews
  - Built a team spirit with a weekly seminar on Clean Code

Freelance Web Development
3/2016 – 9/2016

PwC
- Created an online fiscal visualization tool for new European regulations

C++/OpenCL Programming Intern
2/2013 – 7/2013

e-on software
- Implemented a parallel Path Tracer for 3D rendering on GPU
- Read state-of-the-art papers on high performance ray tracing

OTHER INTERESTS

√× **Teaching Math:** Taught 2 classes of ~30 pupils for a year in middle school   **Singing Rock:** *"Caus' I'm a TNT!"*

EDUCATION

Master of Research in Geometry Processing
Technion (Israel)
2013 – 2016
Submitted a paper to SIGGRAPH on a new finite elements basis for vectors fields on triangle meshes.

Engineering Degree in Computer Science
Ecole Polytechnique (Paris)
2010 – 2014

TECHNOLOGIES

TypeScript   NodeJS   VueJS

Cypress   git   Docker   WebStorm

Mongo   SQL   Bash   Linux   Java

Kotlin   Cucumber   Matlab   C/C++

FAVORITE BOOKS

Clean Code book series

Growing Object-Oriented Software

Domain Driven Design

Design Patterns

PROJECTS

 Seminar on architecture (French)
youtu.be/bT4fnb7XcuA

 Quotes from coding books
alexandre.djerbetian.com/quotes

 The Payroll Case Study
github.com/adjerbetian/bobs-payroll