Alexandre Djerbetian

Research Software Craftsman

Research Software Engineer with experience in applied research on LLMs (Google) and web development.

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EXPERIENCE

Research Software Engineer

4/2021 - present

Google Tel Aviv

Applied research on LLMs Stack: python + internal tools

- Improved LLM's capabilities on downstream tasks by:
 - Frequently analyzing losses manually to identify areas for improvement
 - Crafting specific automatic metrics when relevant
 - Utilizing a mix of few-shot, fine-tuning, pre-training, and distillation
- Guided people on how to conduct research in machine learning
 - Created a methodology for doing "Unspecified research"
 - Sent 2 months to Ghana to help the local team
 - Lead efforts in 2 long term projects (2 3 other people)
- Developped internal tools for the team (15 people)
- Promoted to Level 5 on the path to Level 6

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%
 - Reduced average function size from 19 to 8 lines
- 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
- · Guest speaker in other companies
 - See youtu.be/bT4fnb7XcuA for the talk at Evaneos (40 developers)

Clean Code book series

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
 - Built a team spirit with a weekly seminar on Clean Code

Freelance Web Development

3/2016 - 9/2016

• Created an online fiscal visualization tool for new European regulations

OTHER INTERESTS

√x Teaching Math: Taught 2 classes of ~30 pupils for a year in middle school

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

Python Google Colab TypeScript

Node IS Vue IS

FAVORITE BOOKS

Growing Object-Oriented Software

Domain Driven Design

Design Patterns

PROJECTS

- Seminar on architecture (French) youtu.be/bT4fnb7XcuA
- The Payroll Case Study github.com/adjerbetian/bobs-payroll

