Tal Shiran

Software Tech Lead | AI Champion
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Software Tech Lead with 10 years in full-stack and cloud development (JavaScript, TypeScript, Node.js, Python, AWS). Currently at Mobileye.

EXPERIENCE

Software Tech Lead and AI Champion, Mobileye, Jerusalem — Aug 2024 - now

- Tech Lead within the Road Experience Management (REM) department, developing GIS and map annotation applications used to train autonomous vehicle models.
- Introduced feature flags and defined CI/CD processes (unit tests, coverage, reports). The team went from one release every two to three weeks to several a day.
- GitOps deployments on EKS: DevOps runs the infrastructure, and the repo-level integration was done in my team.
- AI Champion: promotes new technologies and AI-guided ways of working, such as agent orchestration and workflow automation with risk-based task management. Low-risk tasks can go to an agent, high-risk tasks keep a human in the loop at every stage.
- AI Champions forum: gave a talk on spec-driven development and shares knowledge both ways, from the forum to the team and from the team to the forum.

Software Tech Lead, Algorithms Team, OrCam, Israel — Jul 2018 - Jul 2024

- Technical lead for the Algorithms team, building scalable data infrastructure for AI and BI applications.
- Designed and built the primary internal data collection application end to end: web client, server and AWS cloud infrastructure.
- Managed image, audio, video and text data used to train AI models, optimizing storage cost and access time with caching.
- Designed microservices and serverless architectures on AWS, with infrastructure defined in AWS CDK.
- Owned CI/CD pipelines (Jenkins, Bitbucket, GitLab), including code quality checks and unit and end-to-end tests.
- Operated MongoDB and Elasticsearch: upgrades, backups, indexing and data retention.

Full Stack Team Leader, Devalore, Petah Tikva — Jul 2017 - Jun 2018

- Led small teams building web applications with React, Redux and Angular.
- Built cross-platform Android, iOS and web apps with Ionic.
- Set up CI/CD with Jenkins and Docker.

Senior Front-End Developer, SmartBus, Jerusalem — Jun 2016 - Jul 2017

- Built mobile-first interfaces and single-page applications for a shuttle and bus booking platform.
- Developed a customer operations panel for transport companies.

WORK PROJECTS

Run management application, Mobileye (REM). UI for managing runs, which are collections of Python scripts used by REM developers, mainly algorithm developers. Shows the output of every run stage, with map visualization and actions on the map. Mapbox, deck.gl, Vue 3.

GIS and map annotation applications, Mobileye (REM). Used to train autonomous vehicle models. Mapbox, deck.gl, Vue 3.

Internal data collection application, OrCam. Primary internal data collection application, built end to end: web client, server, AWS infrastructure.

PERSONAL PROJECTS

Panda Games. Ad-free family games app in Hebrew: 40+ games, installable as a web app, works offline.
https://panda-games.pages.dev/

Pantry: home inventory app. Household inventory app: stock, shopping lists and receipt scanning.

Classroom Click. Shared-screen team quiz for a classroom. No server or accounts, with automated browser tests.
https://classroom-click.pages.dev/

Yad2 data retrieval and graphical UI. Retrieves listing data from Yad2 and presents it in an interactive graphical UI.
https://github.com/talshi/kona-yad2-prices https://talshi.github.io/kona-yad2-prices/

EDUCATION AND SKILLS

- B.Sc., Computer Software Engineering, Jerusalem College of Engineering, 2013 - 2017
- Languages: Hebrew (native), English (full professional)
- Front end: Vue 3 (current, Mobileye; Vue 2 earlier), Angular (OrCam), React (earlier)
- Back end: Python (FastAPI), Node.js (Express, NestJS)
- Databases: relational and non-relational, e.g. PostgreSQL, MongoDB, DynamoDB, DocumentDB
- Cloud: mainly AWS, also GCP. Broad AWS familiarity at solution-architect level, gained through a course
- Other: PostGIS, Datadog, Logz.io
- Certifications: Machine Learning, Node.js Security, Node.js Design Patterns