Moussa Haidous

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EXPERIENCE

Software Engineer

July. '22 - Present

Matroid - Product - Palo Alto, CA

- Migrated product off of a 5+ year old deprecated NodeJS CMS ridden with 50+ critical security vulnerabilities using AST transformations, enabling upgrades to other vulnerable dependencies.
- Built a **MongoDB** cleanup service with support for customizable policies including orphan, foreign key integrity checks, & topological ordering. Reduced cloud deployment data by over 100GB, resulting in approximately a **5% monthly cost reduction** in AWS S3 expenses.
- Developed a declarative granular attribute access control (ABAC) system, complementing our existing imperative permission control system to meet enterprise customer demands. Initially conceived during quarterly hackathons and awarded 1st place.
- Served as the Directly Responsible Individual (DRI) for a Multiple Object Tracking (MOT) feature, orchestrating collaboration among the deep learning, infrastructure, and product teams.
- Developed a custom video player with filtering options and in-browser exporting using FFmpeg in WASM.
- Migrated product off a CRA/Pug hybrid application NextJS, **enhancing load times**, implementing **server-side rendering**, and improving **developer experience**.
- Developed a **GitHub Actions artifacts viewer for** internal use. It supports viewing GA job logs, in addition to internal artifacts (e.g. video recordings) & test machine logs side-by-side. It additionally supports many DX-focused features like **line offset scroll locking**, **timestamp scroll locking**, global log searching, deep linking, etc. Initially conceived during quarterly hackathons and awarded 1st place.
- Built a real-time collaboration environment into our annotation tooling using WebSockets to improve the user experience of our annotation studio.
- Created **idempotent APIs** that bulk-create configured resources in our product reducing customer setup time in our on-prem offerings.

Part-time Software Engineer

Sept. '21 - May '22

Murex - Build Systems - Beirut, Lebanon

- Built & deployed internal Java gRPC microservices to aggregate data on production build processes.
- Designed & enforced quality gates on build processes such as build time & output size.
- Engineered an API Gateway using Java Spring to translate RESTful requests into gRPC calls.
- Developed a custom Java Nexus Repository Manager 3 recipe to enable build caching & decrease development time.

Software Engineering Intern

Jun. '21 - Aug. '21

Murex – Build Systems – Beirut, Lebanon

- Optimized the **speed performance** of a frequently used **Python** internal tool by **15x**.
- Built Jenkins pipelines to accelerate development and deployment of the tool.
- Developed a Flask RESTful service that provides an API for the tool which facilitates its usage by Murex engineers.
- Designed & deployed an Angular dashboard to display aggregate data & indicators generated by the tool.
- Implemented additional features for the tool that improve the quality of life of development teams across Murex.
- Managed the incremental deployment of the new tool version across the Murex production codebase.

EDUCATION

Lebanese American University | Bachelor of Science in Computer Science

May '22

• Cum. GPA: 3.98/4.0

SKILLS

Languages:

JS/TS, Python, Java

• Technologies:

NodeJS, Spring Boot, Flask, MongoDB, PostgreSQL, React, NextJS, Jenkins, GitHub Actions, Docker, Kubernetes,