Sameh **Haidar**

Software Engineer · Backend Focused

Damascus, Syria

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Summary

Seasoned full stack developer with 2+ years' professional expertise, focusing on robust back-end solutions. Enthusiastic contributor to open source projects, relishing intricate technical hurdles.

Education

Damascus University *Damascus, Syria*

B.S. in Information Technology and Engineering / Majored in Artificial Intelligence *Mar. 2016 - Aug. 2021*

- With a percentage of 80%

Work Experience

Full Stack Developer *Damascus, Syria*

Security System Company (SSC) *May. 2022 - Jun. 2023*

- Demonstrated expertise in the development and maintenance of a full featured GPS tracking system encompassing versatile device protocols compatibility.
- Designed and Implemented REST API endpoints integrated seamlessly with a user-friendly interface, allowing for the display of GPS data in the form of comprehensive reports.
- Collaborated closely with hardware engineers to guarantee the accurate implementation of device protocols within the system,thereby ensuring accurate parsing of GPS data.
- Dramatically enhanced system performance when displaying extensive route data on maps by profiling the code-base and minimizing redundant component tree re-renders within the React framework.
- Effectively built and deployed the system within dockerized containers on Linux machines leveraging a reverse proxy (Apache) to facilitate data compression and configuring HTTPS connections.

Tech Stack React, Redux, Java, JAX-RS, Jetty, Jersey, MariaDB, Docker, Linux, Apache, Gradle

Software Engineer & Researcher *Hungary (remote)*

Miskolc University Link to publication *Dec. 2021 - May. 2022*

- Co-authored a scientific paper focusing on the study and implementation of multi-objective constrained optimization, specifically exploring the application of meta-heuristic algorithms in the field of waste management and logistics.
- Effectively translated our research case study and intricate mathematical constraints into a robust implementation using the Python programming language.
- Researched, prototyped and implemented various metaheuristic optimization algorithms including Genetic algorithm, Particle Swarm Optimization and Ant Colony Optimization, and customized these algorithms to fit our specific case study.
- Employed open routing service API to enrich research visuals with Time/Distance and Directions data. Achieved precise algorithmic route visualization, enhancing the waste management system's comprehensive representation.

Personal Projects

Code Snippets Github Code

A Full stack app which helps programmers practice typing various code snippets using different programming languages

- Written using Typescript, Next.js, Prisma, MongoDB and Tailwind CSS

Skills

Programming	Python, Java, Typescript, Javascript, C++, Rust(hobby)
Frameworks & Libraries	Django, Node.js, React.js, MySQL, PostgreSQL, Next.js, Prisma, NumPy, PyTorch, OpenCV
Tools & Systems	Gradle, Cmake, Linux
DevOps	Docker, Git, GitHub Actions
Languages	Arabic, English, German