

# Sameh Haidar

SOFTWARE ENGINEER · BACKEND FOCUSED

Damascus, Syria

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## Summary

Experienced full stack developer specializing in building robust back-end solutions. Passionate about contributing to open source projects and tackling intricate technical challenges with enthusiasm.

## 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](#)

TYPESCRIPT, NEXT.JS, PRISMA.JS, MONGODB, TAILWIND CSS

- Developed a Full stack app which helps programmers practice typing various code snippets using different programming languages

## Education

### Damascus University

Damascus, Syria

B.S. IN INFORMATION TECHNOLOGY AND ENGINEERING / MAJORED IN ARTIFICIAL INTELLIGENCE

Mar. 2015 - Dec. 2020

## Skills

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