

# 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

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

Damascus, Syria

Mar. 2016 - Aug. 2021

- With a percentage of 80%

## Work Experience

### Full Stack Developer

SECURITY SYSTEM COMPANY (SSC)

Damascus, Syria

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 deployed and installed 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

### Software Engineer & Researcher

MISKOLC UNIVERSITY [📄 LINK TO PUBLICATION](#)

Hungary (remote)

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

A FULL STACK APP TO HELP PROGRAMMERS PRACTICE TOUCH TYPING VARIOUS PROGRAMMING LANGUAGES

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.

## Skills

**DevOps** AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCI

**Back-end** Koa, Express, Django, REST API

**Front-end** Hugo, Redux, React, HTML5, LESS, SASS

**Programming** Node.js, Python, JAVA, OCaml, LaTeX

**Languages** Korean, English, Japanese