Mohamed Yahdih Souiyeh

Software Engineer

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Skills

Programming Languages: Go, C, C++, JavaScript, TypeScript
Back-end Development: HTTP, REST APIs, WebSockets, JWT, OAuth, Distributed Systems
DevOps: CI/CD (GitLab), Docker & Containerization, Infrastructure Monitoring (Grafana), Linux, Bash
Databases & Storage: SQL, MySQL
Tools & Version Control: Git, GitHub, GitLab
Currently Learning: Go, Storage Engines, Grafana Observability, Distributed Systems

Experience

Software Engineering Intern, M2M Group   Dec 2024 – May 2025
- Modernized infrastructure monitoring for an e-payment service by introducing and integrating the Grafana stack to observe transactions and infrastructure performance.
- Implemented a GitLab CI/CD pipeline for secure and efficient deployment of Grafana services using GitLab runners.
- Improved observability by integrating dashboards and basic alerting, enhancing the team's ability to monitor system performance.

Projects

Maze Builder & Solver (Daedalus Project)   medsouiyeh.live/Daedalus
- Developed a web application using 2D Canvas and Next.js to visualize maze generation and path-finding algorithms.
- Implemented seven maze generation and path-finding algorithms (Dijkstra, A*, Recursive Backtracker, Prim's algorithm, breadth-first search).
- Implemented four data structures (stacks, queues, priority queues, and heaps) to optimize performance and memory usage.

Online Pong Game Platform (Transcendence Project)
- Led a team of five to efficiently and effectively complete the project.
- Implemented JWT access & refresh tokens for secure login and authorization using NestJs.
- Implemented a Docker-based development environment to mirror the production setup, ensuring consistency, and streamlined deployments.

Http Server (Webserv Project)
- Developed a simple version of an NGINX web server using C++.
- Learned the fundamentals of HTTP and TCP/IP protocols.

Education

1337 School, Architect in Digital Technologies   2021 - Present
Specialized Institute of Applied Technology, Specialized Technician in Electromechanics   2018 - 2020

Positions of Responsibility

LEET Makers Robotics Club President   2022 - 2023
- Revitalized a struggling robotics club, transforming it into a thriving community.
- Developed and implemented a strategic plan to secure sponsorships and resources, enhancing the club's operational capabilities.
- Fostered a collaborative environment where members were encouraged to innovate, learn, and take on leadership roles.