Mahmoud AlNunu

Software Engineer | Backend Developer

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Summary

as a Backend Developer, I'm adept at crafting robust solutions that power the digital world. My expertise lies in building the backbone of applications, ensuring they run seamlessly and efficiently. With a keen problem-solving mindset and collaborative spirit

Experience

Solunyx Sdn Bhd
Backend Developer
Damascus (On-site)
Feb 2023 - Feb 2024

- Designed and implemented RESTful APIs using Node.js, Express.js, and NestJS frameworks and TypeScript to enhance code readability and maintainability.
- Integrated and managed databases using Prisma ORM with MySQL, ensuring efficient data storage and retrieval
- Containerized applications using Docker, simplifying deployment processes and improving scalability.
- Implemented API documentation using Swagger, facilitating easier collaboration with frontend and mobile development teams.
- Conducted unit tests and API tests using Postman to ensure robustness and reliability of backend services.
- Worked with Socket.IO to establish real-time communication between backend systems and electronic devices.
- Facilitated deployment processes on server hosts, ensuring smooth deployment and continuous availability of applications.

🔗 Solunyx

Anythink MarketPlace
Full Stack Developer Trainee
Remote
Sep 2022 - Feb 2023

- Fixed a responsive Design bugs by reproducing the bug locally and fixing it.
- implemented a Script with JavaScript for seeding local Containerized Database with mock data that saved time on every new development environment setup.
- Troubleshot and debugged code ensuring compatibility with devices, browsers, and operating systems.
- Analyzed, prioritized and problem-solved several tasks concurrently with minimum supervision.

🔗 Anythink Market

Education

Yarmouk Private University
Software Engineering
Bachelore
2019 - Present

🔗 YPU

Languages

Arabic
Native

English
Proficient

Bit Spot

A Spot for IT Projects Showcasing.

March 2024

A Mobile App for IT colleges to facilitate the sharing, browsing, and discovery of academic and technological projects. The platform aims to enhance collaboration, inspiration, and engagement among students, faculty, and external stakeholders by providing detailed insights into various projects developed within the institution.

Technical Stack:

- **Backend:** Built using NestJS, a progressive Node.js framework, to ensure efficiency, reliability, and scalability.

- **Data Management:** Utilizes Prisma ORM for type-safe API interactions with a MySQL database, ensuring data integrity and streamlined operations.

- **Version Control & CI/CD:** Git and GitLab are used for version control and repository hosting, supporting collaborative development and continuous integration and deployment.

- **Containerization & Deployment:** Docker is employed to containerize the application, ensuring consistency across development, testing, and production environments. Ngrok is used for instant development environment sharing with the team.

System Analysis, System Design, Project Managment, SDLC, Backend Development, Applied Project

🔗 Slides

Load Balancer

Distributed System Assignment Project

May 2024

Implemented a load balancer in Go (Golang) to optimize resource utilization, reduce response time, and enhance the performance and reliability of a distributed system.

Features:

- **Dynamic Load Balancing:** Uses Round Robin, Least Connections, and Weighted algorithms.

- **Health Checks:** Regularly pings servers to ensure responsiveness and removes unresponsive servers.

- **Concurrency Handling:** Utilizes Go's goroutines and channels for efficient request management.

- **Configurable Policies:** Allows setting load balancing policies and thresholds.

- **Real-Time Metrics:** Provides real-time monitoring and logging of server performance.

Technical Stack:

- **Language:** Go (Golang)

- **Networking:** Go's net/http package for handling HTTP requests.

- **Concurrency:** Goroutines and channels for concurrent processing.

- **Health Checks:** Periodic server health assessments.

Skills

Development Tools

JavaScript, TypeScript, Go, Node.js, Express.js, NestJS, Postman, Swagger, Prisma ORM, MySQL, PostgreSQL, MongoDB

Environment and Tools

Git, Gitlab, nginx, Socket.io, Docker, VS Code, Vim, MacOS, Linux, Shell