Khalifa AlMheiri

Backend and systems-oriented engineer with relevant production exposure, deliberately moving into cloud and data-platform engineering.

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Summary

Software Engineer with experience building backend services in distributed microservice environments using Rust and Node.js. Passionate about distributed systems, cloud infrastructure, and platform engineering, with experience working with Kafka, Redis, OpenShift, and containerized production environments. Seeking to build the infrastructure powering large-scale cloud and AI platforms.

Experience

Emirates NBD Dubai

Software Engineer November 2024 - Present

- Developed and maintained backend services within a large-scale distributed microservices ecosystem using Rust and Node.js.
- Built and maintained a high-performance Rust-based web proxy, ensuring feature parity with an existing Spring Boot implementation.
- Worked extensively with Kafka-based messaging and asynchronous service communication.
- Collaborated on services deployed on OpenShift, gaining exposure to containerized production environments.
- Worked with Redis, React, and TypeScript as part of cross-service application development.
- Investigated end-to-end request flows across distributed services to diagnose production issues and understand system interactions.
- Participated in Agile development and periodically served as Scrum Master.

Tawazun Technology & Innovation Abu Dhabi

Machine Learning Intern June 2023 - July 2023

Explored the field of deep learning and object detection tasks. Benchmarked state of the art object detection models on the COCO (Common objects in context) dataset. Wrote a python module in order to automate training and testing machine learning models. Finetuned the models on a bespoke dataset. Compiled findings into a digestable form.

Education

Khalifa University Bachelor of Science

Computer Science, Artificial Intelligence Concentration August 2017 - August 2024

Studied for 3 years as a Computer Engineering - Software Concentration student then switched majors to Computer Science

https://ku.ac.ae

Applied Technology High School High School Diploma

Advanced Science Program August 2012 - June 2016

https://iat.ac.ae

Projects

minishell 2023-01-01 - 2023-01-30

Built a Unix shell in C implementing process creation, pipes, signals, and file descriptor management.

https://github.com/Zunon/minishell

Philosophers 2022-10-16 - 2022-10-31

Implemented a multithreaded synchronization solution in C using mutexes and concurrency primitives.

https://github.com/Zunon/Philosophers

Skills

Languages

Java, C, C++, C#, Go, Rust, Javascript, Typescript, Python

Linux

Development Environment, Shell Scripting, Debugging

Cloud & Platform

OpenShift, Kubernetes, Docker

Distributed Systems

Kafka, Redis, Microservices, REST APIs

Awards

Gold Medalist - Web Design and Development May 2015
EmiratesSkills

Competitor Representing UAE August 2015
WorldSkills 2015 São Paulo

Gulf Programming Contest Representative
September 2019
Khalifa University Programming Contest

Highest Performing Pisciner August 2021
42 AbuDhabi C Piscine

Languages

English

C2 / Fluent

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Arabic

B2 / Working Proficiency

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Japanese

B1 / Upper Intermediate

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