OWEN SHAW

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Summary

Graduate Software Engineer at ETAS with expertise in Java, Go, JavaScript, HTML, CSS, and SQL/No-SQL Databases and Experience with deployment tools (Git, Jenkins, Docker).

Professional focus on Java and Go development, with personal projects exploring AWS, React, and Docker. Skilled in backend service development with JavaEE. I combine strong software engineering principles with a continuous learning mindset to tackle complex challenges, and I'm also proficient in Linux-based systems and deployment technologies, enabling streamlined development processes and enhanced system efficiency.

Skills

Backend Development:
- Experience in developing scalable and efficient backend services within a large distributed system
- Proficient in Java(8,11,17) (Java EE/Jakarta) and Go
- Experience developing RESTful APIs both as standalone microservices and as a monolith

Frontend Development:
- Skilled in HTML, CSS, and JavaScript
- Experience with modern frontend frameworks/libraries (React, Typescript)
- Experience consuming RESTful APIs

Database Management:
- Proficient in relational databases (MySQL, PostgreSQL) and NoSQL databases (MongoDB)
- Understanding of database design, optimization, and ORM concepts
- Experience working with systems utilizing many different types of databases

Web Development:
- Proficiency building and deploying web pages using HTML, HTMX, CSS, and JavaScript (React).
- Experience developing web applications

Teamwork:
- Experienced in working within teams composed of multiple different roles
- Experience in working within an Agile team involving participating and leading sprint planning, daily stand-ups, and retrospectives

Software Systems Architecture:
- Capable of designing and implementing diverse solutions across many architectures including:
  - Monolithic applications
  - Microservices architectures
  - Full-stack platforms
  - Asynchronous and event-driven systems
- Experience in creating and developing efficient, scalable, and secure architectures aligning with design patterns and SOLID principles

Projects

Go Encrypted Password Manager -
I developed a password manager in my free time, implemented entirely in Go and utilizing AES encryption.The project utilizes a frontend library Fyne for the user interface.
I initiated this project to deepen my understanding of both the Fyne toolkit and Go, skills directly applicable to a work project on which I lead development.

Sync Scribe -
I developed a cloud-based collaborative note-taking app with asynchronous features leveraging CRDTs and NoSql storage. Built a full-stack solution using Go (backend), React (frontend), and MongoDB (database). Containerised with Docker and deployed on AWS.
This project was undertaken to further software development skills and demonstrates a proactive approach to mastering new technologies, especially Rest Services, API Endpoints, React, AWS, Docker and Go.

Emotion Recognition AI -
During my Dissertation I utilized deep learning techniques to build a neural network model for recognising emotions from facial expressions. I trained the model on a dataset that contained images of individuals with various emotional expressions and fine-tuned it to accurately predict emotions such as happiness, sadness, anger, fear, surprise, and neutral. The end result was a robust model that could accurately classify emotions in real-time.

Experience

Graduate Software Engineer   09/2023 to Current
ETAS (formerly Bosch Automotive Service Solutions)   Manchester
- Developed and maintained internal software tooling and backend services in both Spring Boot and JavaEE.
- Developed across the full stack of a large system as part of an agile team in Typescript, Java and Go. Developing large data management systems, backend services and microservices.
- Developed new features for, and maintained a test application written in Java, capable of testing the performance of REST endpoints attributed REST services within a larger system at scale, to ensure the services can scale with demand.
- Lead a solo project and development on a full-stack internal documentation publishing tool written in Go.
- Participated in Scrum / Agile ceremonies.

Junior Technical Consultant   **03/2023 to 08/2023**
Ten10
- Received training covering a variety of technical subjects including over the course of three months including: Software design principles, Software testing, Java development, and Devops.

Education

2:2 Bsc (hons) : **Software Engineering**   **2022**
Edge Hill University   Ormskirk

BTEC Extended Diploma - D*D*D* -: **Computing**
John Rigby College   Wigan

Education