

# OWEN SHAW

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## Summary

Graduate Software Engineer at Bosch 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

- **Java:** Experience in Java Microservices and Application Development. Experience developing backend services in Java EE
- **Go:** Go (Golang) Development: Proficient in building efficient, concurrent applications.
- **RESTful API Development:** Experience in designing, developing, and consuming RESTful APIs in Both Java and Go.
- **Web Development:** Proficiency building and deploying web pages using HTML, CSS, and JavaScript (React).
- **Software Systems Architecture:** Proficient in designing and implementing diverse solutions including; single-language applications, full-stack platforms, and asynchronous collaborative system. Leveraging multiple technologies to create efficient, scalable, and secure architectures.

## Projects

### Go Encrypted Password Manager -

I am currently developing a password manager in my free time, implemented entirely in Go and utilising AES encryption. The project utilises 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 created 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 utilised 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

#### Bosch Automotive Service Solutions

Manchester

- Developed and maintained internal software tooling and backend services in both Springboot and JavaEE.
- 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

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**2:2 Bsc (hons) : Software Engineering**

Edge Hill University

**2022**

Ormskirk

**BTEC Extended Diploma - D\*D\*D\* -: Computing**

John Rigby College

Wigan

**7 GCSEs Grades A-C**

St Edmund Arrowsmith Catholic High School

Wigan