

IMMANUEL EGBOCHE

Passionate engineer with an interest in hardware and software. Leveraging a robust background in software development, I am dedicated to solving complex problems with robust solutions.

EMPLOYMENT HISTORY

August 2022 – Present

Mindweaver, BAE Systems UK
Software Engineer

- Developed and implemented new Java microservices using Spring Boot framework to enable secure data sharing between applications, driving 20% user adoption and 15% revenue increase.
- Refactored monolithic application into Docker containers and Kubernetes clusters to improve modularity and scalability, reducing response times by 50%.

August 2021 – July 2022

The Ministry of Justice
Graduate Software Engineer

- Built an ETL pipeline with Python to extract data from multiple MySQL databases into an Amazon S3 data lake. Used AWS Glue and Athena for transformation and querying, resolving data inconsistencies.
- Implemented Node.js middleware with TypeScript interfaces to standardize inputs and outputs between legacy systems and new React front-end.

June 2021 – August 2021

Generation UK
Trainee Data Engineer

- Developed a Python CLI tool with Flask REST API and MongoDB backend for a small business to track inventory and sales. Wrote unit tests with pytest ensuring over 90% coverage.

January 2020 – January 2021

Pepper UK
Business Analyst

- Successfully ensured the smooth execution of multiple technical projects within specified time and budgetary constraints.
- Utilized SQL and Python for precise boarding of loans, contributing to accurate data management.
- Implemented libraries such as PyBrain to enable predictive analytics for customer repayment percentage, enhancing strategic decision-making.

PERSONAL PROJECTS

Ecommerce Web app

- Built an e-commerce webapp using React and Redux with a Django REST API backend. Managed application state with Redux and API calls with Axios. Used PostgreSQL database and JWT authentication.

Web Scraper

- Built a scalable web scraper in Python using Scrapy and Selenium to extract data from e-commerce sites into CSV format.
- Containerized application using Docker and Kubernetes to allow distributed scraping. Used MongoDB to store scraped data.
- Implemented automation tests with pytest, achieving over 85% coverage.

AI Assistant Chatbot

- Developed an AI chatbot assistant using Python, Flask, and TensorFlow for natural language processing.
- Built conversational skills using lexical analysis, intent recognition and entity extraction.
- Deployed chatbot on AWS EC2 with CI/CD pipeline using GitHub Actions.
- Collected chat logs to improve ML model using TensorFlow Keras neural network libraries.

TECHNICAL PROFICIENCIES

- **Languages:** Python, C#, Java, NodeJs
- **Web Technologies:** Flask, Django, SpringBoot, WebSockets, React
- **DevOps:** Docker, Kubernetes
- **Databases:** SQL, NoSQL – GraphQL, MongoDB
- **Operating Systems:** Linux
- **Cloud Services:** AWS (Amazon Web Services) Practitioner

EDUCATION & QUALIFICATIONS

2021	Tech Trainee	Futureproof UK
2016 – 2019	BSc Sports Science	University of Exeter