Vali Hameed

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Education

Lancaster University   Sept 2024 – June 2027
- Computer Science BSc with Honours (Year 2) - Expected First Class
- First Year Average - 70%

Experience

Co-Founder & Full-Stack Developer, Picky Eater – Lancaster, ENG   October 2025 – Present
- **Co-founded** a startup developing a **scalable web application** with **Django, React, MongoDB** and **PostgreSQL**.
- Led **CI/CD** integration using **Git** and **GitHub** Actions, **improving** deployment **efficiency**.
- Collaborated in a **cross-functional** team of developers using **agile sprints**.
- **Shaped product roadmap** and **translated user requirements** into technical specs.

Temporary Software Developer, DigbySwift – Leeds, ENG   June 2023
- Developed a **cross-platform mobile application** from concept to completion using **Dart** and **Flutter**, delivering a user-centric movie and TV series search tool and **reduced** app search time by **25%**.
- Ensured code reliability and software quality by implementing comprehensive **unit tests**.
- Managed project version control using **Git** and **GitHub**, employing a feature-branching workflow with pull requests for code review before merging into the main branch.
- Contributed to business operations by assisting with the management of client websites on **Microsoft Azure**.

Projects

UFC Fight Predictor
- Developing a secure **RESTful** API using **Java Spring Boot** and **Spring Security**, managing user data with **Spring Data JPA** and a containerised **PostgreSQL** database using **Docker**.
- Developed a **machine learning** model in **Python** to predict UFC fight outcomes by cleaning and processing a dataset of over **6,000** fights with **Pandas** before training a **Logistic Regression** classifier with a **66%** accuracy.
- Designed, built, and **shipped** a full-stack prediction app, containerizing a **FastAPI** backend with **Docker** and deployed to **AWS ECS**.

Tram Network Pathfinding Visualizer
- **Engineered a desktop application in Java** to calculate and visualize the shortest route between stations.
- Applied **OOP** principles to design a robust **graph data structure** and implemented **Dijkstra's** algorithm for efficient pathfinding.

Portfolio Website
- **Developed and deployed a performant, SEO-friendly** personal portfolio by leveraging the **Static Site Generation (SSG)** of **Next.js** (a **React** Framework) and **Vercel's automated CI/CD pipeline**.
- **Implemented a fully responsive and modern UI** using the utility-first approach of **Tailwind CSS**.

2D Racing Game
- Directed a full-cycle **python** project by **translating stakeholder requirements** into a functional design, adding features through an **iterative SDLC**, and **incorporating user feedback** to ensure all success criteria were met.

Technical Skills

Languages: Java, Python, Dart, JavaScript, SQL, C, C++

Frameworks/Libraries: Flutter, Next.js, Tailwind CSS, React, Pandas, Scikit-learn, Fast API, Spring Boot, Django

Tools & platforms: Git/GitHub, Unit Testing, Docker, AWS, PostgreSQL, MongoDB, MySQL