# 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

**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 tools.
- 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**
- **Backend Development (In Progress):** Developing a secure RESTful API for the predictor using **Java** and the **Spring Boot** framework.
- Implemented a robust user registration and authentication system using **Spring Security**, including email verification and password encryption.
- Utilized **Spring Data JPA** to manage user data, storing information in 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 deploying to **AWS ECS**.

**Tram Network Pathfinding Visualizer**
- **Engineered a desktop application in Java** to calculate and visualize the shortest route between two stations on a tram network.
- **Applied Object-Oriented Programming (OOP) principles** to design a robust graph data structure, modeling stations, connections, and paths as distinct Java objects.
- **Implemented classic search algorithm such as Dijkstra's** to efficiently determine the most optimal path.

**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

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

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