

Robert Haynes

Manchester • robhaynes0420@gmail.com • +44 7717 462481 • GitHub • Portfolio Website

Experience

Jaguar Land Rover

Gaydon, UK

Undergraduate Software Engineer

July 2023 – July 2024

- Developed data pipelines to automate manual tasks giving time back to customers, saved 50hrs week total
- Developed a full-stack web app using ReactJS, Flask, and SQL to replace a legacy MATLAB tool, enabling the NGD team to generate parameter sets online 75% faster
- Built Tableau Prep Flows and Tableau Dashboards to streamline reporting and visualise key performance metrics, enhancing data-driven decision-making across teams
- Created tools and scripts that improved the efficiency of the team by 70% and 99% on cost
- Developed virtual PyDriveSim environments to test virtual autonomous vehicles in Nvidia DriveSim

Projects

ML-Powered Horse Racing Predictor

Manchester, UK

Python & ML

Jun 2025 – Current

- Developing a ML pipeline to predict horse racing outcomes using historical racecard data
- Scraping and processing race data, with model training using Scikit-Learn (Logistic Regression, Random Forests, Gradient Boosting)
- Building a retrainable system with Python, Pandas, and Supabase for data storage and management
- Exploring continuous model improvement and future deployment via GCP or AWS

Arbitrage Finder

Manchester, UK

Python & Full-Stack Web App

Jun 2023 – May 2024

- Python script deployed on GCP to fetch bookmaker odds via API, identify arbitrage opportunities, and persist results in a MongoDB database
- Strong traction on GitHub with 24 stars and 6 forks, reflecting community interest in the project

Hilton Meals App

Hilton, ZA

iOS App and Web App

Jun 2019 – Sept 2019

- Developed an iOS app and web app to allow students to view the daily menu
- Created a centralised backend with Firebase to store and retrieve data for both platforms
- Used by 550 students daily with kitchen adding meals weekly through the admin portal
- Awarded Sinclair Trust Prize for Entrepreneurship at the end of my matric year

Education

University of Manchester

Manchester, UK

BSc (Hons) Computer Science with Industrial Experience (First Class)

July 2025

Relevant Coursework: Web Development, Software Engineering, AI, Machine Learning, Data Science, Operating Systems, Computer Engineering, Visual Computing, Algorithms and Data Structures

Hilton College

Hilton, ZA

NSC Certificate (IEB)

December 2020

Skills & Interests

Programming languages: Python, Java, Swift, C, C++, HTML/CSS/JS, SQL

Frameworks: ReactJS, NextJS, Tailwind CSS, Pandas

Technologies: Docker, GCP, Vercel, Git, JIRA, Tableau