

Robert Haynes

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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
- 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