

Aadam Hussain

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Education

University of Leicester - Software Engineering BSc

Oct 2023–May 2027

- **Grade:** First Class Honours (expected)
- **Relevant Coursework:** Programming Fundamentals, Object Oriented Programming, Algorithms, Data Structures and Advanced Programming, Databases and Domain Modelling, Software Architecture and System Development

Experience

Software Developer Intern at Intercede

June 2024–Sep 2024

- Automated the company's patch tracking system by integrating Jira with internal processes using JavaScript, C#, and PowerShell, which reduced manual searching time by 30% and sped up the patch request process by 20%.
- Set up a new Jira project and workflow scheme specifically for patch requests, ensuring seamless integration with existing systems and enabling real-time tracking and management of patch updates across teams.
- Collaborated with cross-functional teams to identify and resolve software bugs, enhancing the overall stability of the system.
- Documented technical processes and created user guides to improve knowledge transfer and onboarding for future interns.

Car Rental Application / *Python, SQLite*

- Developed a car rental management app using Tkinter for the front-end and SQLite for back-end user authentication, car listings, and bookings.
- Implemented a feature that allows individuals to list their own cars for rent, enhancing user engagement and expanding the range of available rental options.
- Conducted a user survey to gather feedback on the app's usability and implemented a feature to sort car listings by price and rental duration, reducing search time by 40% and significantly improving the user experience.
- Incorporated feedback from my A-Level coursework supervisor to enhance the application's functionality and user interface, ensuring it met high standards before delivery.
- Successfully delivered the project on time, showcasing strong time management and organizational skills throughout the development process.

Capital One Hackathon / *Python, Figma*

- Led a team of 5 in designing an app to provide real-time price comparisons, helping users reduce shopping costs by 10%.
- Retrieved the cheapest prices for items from local stores, delivering real-time data to users using a Python REST API.
- Designed the app's interface using Figma ensuring a user-friendly experience.
- Presented both the app design and functional code at the end of a challenging 6-hour time frame to a panel of Capital One employees.
- Managed the team's workflow and ensured effective collaboration, resulting in a polished proof of concept under tight deadlines.

Machine Learning for S&P 500 Stock Prediction / *Python, pandas, scikit-learn*

- Developed a machine learning model to predict stock price movements for the S&P 500, achieving a 60% success rate on executed trades using historical data.
- Engineered features like rolling averages, momentum indicators, and volatility using various time horizons (2, 5, 10, 21, 60-day windows), enhancing the model's ability to recognize patterns in price movement.
- Targeted 60% confidence for making a trade which was achieved on 30% of days tested.
- Performed backtesting with a Random Forest Classifier on historical data, achieving an accuracy of 60% in predicting daily market movements.
- Ensured seamless updates and reusability of the model through automated data acquisition from Yahoo Finance using the yfinance API and local data storage.

Courses & Certifications

Harvard CS50: Introduction to Computer Science

- Completed online course covering fundamental computer science concepts, including algorithms, data structures, and programming languages such as C, Python, SQL, JavaScript, CSS, and HTML.

The Complete 2024 Web Development Bootcamp (Udemy)

- Completed a 62-hour bootcamp in front-end and back-end web development, covering HTML, CSS, JavaScript, Node.js, React.js, and SQL.
- Built real-world projects and gained hands-on experience with APIs, REST, and version control.

Technical Skills

Languages: Python, Java, HTML, CSS, JavaScript, SQL (PostgreSQL) **have also used:** C, C#, Bash, PowerShell

Frameworks & Libraries: React.js, Node.js, jQuery, EJS, RESTful APIs **have also used:** Express.js, Flask, Bootstrap

Developer Tools: Git, GitHub, VS Code, Visual Studio, IntelliJ