

# **Widad Alli**

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Second year undergraduate Computer Science (MEng) student seeking a data engineering internship to apply backend and data-handling skills using Python, PostgreSQL, and cloud tools like AWS. Possesses strong organisational skills and excels in collaborative environments and leadership roles. Applying for a Data Engineering internship at Stage

## **Technical Summary**

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- **Languages:** Python, PostgreSQL, JavaScript, Dart
- **Tools:** Git, VS Code, Tkinter, SQLite, Excel, Firebase
- **Areas of Interest:** Backend development, Data Engineering, Cloud Computing

## **Education**

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### **University of Portsmouth — MEng Computer Science**

**2023 - 2027**

Predicted 1st Class Honours (81% grade average)

Second year Results: Programming Applications and Languages (89%), Web Programming (75%), Data Structures and Algorithms (80%)

### **Havant & South Downs College**

**2021 – 2023**

A Level: Biology (A), Maths (B), Chemistry (B), EPQ (A)

AS Level: Psychology (A)

### **Trafalgar School**

**2016 – 2021**

GCSE: Mathematics (9), English Language (9), Computer Science (9)

## **Technical Projects**

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### **75 STUDENT APP (FLUTTER & SQLITE)**

**September 2024 - June 2025**

- Collaborated with a randomly assigned team of peers to create, design and build an app of our own making. Our concept adapts the 75 Hard core system's principles to increase student success, focusing on daily discipline.
- Developed and integrated key features, including time management, fitness tracking, mindfulness (screen time reduction), and financial tracking, to support student life.
- Conducted regular code reviews and testing sessions with team members to ensure seamless functionality and user experience, optimizing app performance and usability, with hope of publishing in the near future.

### **RUN A RACE APP (JAVASCRIPT, CSS, HTML, EXPRESS.JS & NODE.JS)**

**January 2025 - June 2025**

- Built a full-stack race timing app using JavaScript and Express.js, enabling offline race data capture, real-time result syncing, and CSV export without third-party libraries.
- Designed for accessibility and resilience, supporting use in harsh weather by older users through a minimalist, touch-friendly interface and localStorage-based offline functionality.
- Wrote modular, maintainable code across client and server, applying clean architecture, REST principles, and structured error handling under strict delivery and tooling constraints.
- Handled race data for up to 300+ participants offline, with no loss during sync

### **SMART HOME CONTROLLER (PYTHON)**

**April 2024**

- Developed a smart home controller application with a graphical user interface using Tkinter, implementing both front-end and back-end components using Python, ensuring seamless communication between the user interface and the back-end code.
- Engineered the backend to handle multiple device connections and data processing, allowing for real-time monitoring and control of smart devices whilst also conducting thorough testing and debugging throughout development to ensure reliability and responsiveness
- Enhanced proficiency in Python, particularly in object-oriented programming, exception handling and the use of Tkinter

## **Certifications**

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### **HARVARD CS50**

**since March 2025**

Computer science fundamentals including C, Python, SQL, and web development

### **AWS CLOUD PRACTITIONER**

**since June 2025**

Foundational knowledge in cloud concepts, security, and architecture

### **IBM PYTHON FOR DATA SCIENCE**

**since June 2025**

Knowledge on Python programming, data analysis, data visualization, and working with libraries like Pandas, NumPy

## **Work Experience**

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### **HAYLING PHARMACY, TRAINEE DISPENSER**

**September 2024 – Present**

- Ensured prescription accuracy and regulatory compliance while managing medication preparation in a fast-paced environment
- Worked under the guidance and supervision of pharmacists to ensure the accuracy and safety of prescriptions, whilst keeping detailed records and documentation, and claiming prescriptions, ensuring compliance with regulatory requirements
- Throughout this experience, I developed the ability to work smoothly and compartmentalise my responsibilities in such a fast-paced environment

### **SUPERPROF, MATHS & SCIENCE TUTOR**

**January 2022 – Present**

- Improved problem solving abilities by guiding students through difficult math problems, similar to the analytical skills needed in software development.
- Developed strong communication skills by simplifying complex concepts, which has aided in explaining technical concepts in collaborative coding environments.
- Optimised time management and organisational skills by preparing tailored lesson plans and managing multiple student schedules, as well as my own

## **Leadership & Extracurriculars**

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### **SOCIAL MEDIA MANAGER, SUDANESE SOCIETY**

**September 2024 – Present**

- Increased follower engagement by 37% through consistent, high-quality content creation across multiple platforms, boosting awareness and participation.
- Used analytics to tailor more “popular” content, improving engagement rates and identifying peak activity times, a skill that is relevant to data analysis and testing.
- Co-ordinated content creation with committee members, ensuring timely posts and adapting quickly to last-minute changes..

### **HEAD OF POLITICS SOCIETY**

**Oct 2021 – May 2023**

- Led the Politics Society, in college, coordinating with school staff and society members to plan and execute events, and organised regular meetings and moderating debates on current political issues.
- Engaged with the student body to increase membership and participation, ensuring a diverse range of perspectives within the society.
- Successfully grew the society's membership by 30%, attracting a diverse group of students with varying political interests

*Reference available on request*