

# Osi Mayungbo

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## EDUCATION

### University of St Andrews

BSc (Honours) Computer Science

Fife, United Kingdom

Sep 2024 – Jun 2027

- Current Grade: First Class Honours
- Direct entry into the 2nd year of a 4-year degree

## EXPERIENCE

### Arm

Software Engineer Intern

Cambridge, United Kingdom

Jun 2025 – Aug 2025

- Incoming Software Engineer Summer Intern on the Numerics Team (Performance Optimisation with C/C++)

### Susquehanna International Group

Technology Spring Week: Selected Participant

Dublin, Ireland

Apr 2025

- Selected to attend exclusive upcoming Spring Insight programme

### Citadel

Discover Citadel & Citadel Securities Spring Week: Selected Participant

London, United Kingdom

Mar 2025

- 1 of 80 students selected from 4729 applicants across Europe to gain insights into Citadel and Citadel Securities through networking with employees and interactive workshops in quantitative finance, trading, and engineering

### Service101 (Contracted through TechCortex)

Software Engineer

Remote

Jan 2025 – Present

- Collaborated in developing a platform for Service Advisors, added features using React, Next.js, and Supabase
- Refactored and optimised code, reducing 500+ lines of code and enhancing overall user experience
- Resolved 4 critical production issues, significantly improving site stability and reliability

### PreFessionals

Software Engineer Intern

Remote

Jun 2024 – Sep 2024

- Contributed to the growth of a startup that connects student freelancers with small and medium-sized enterprises
- Led the development of a secure, real-time messaging system using React, Node.js, and Firebase
- Redesigned a long sign-up form into a friendlier multi-step form estimated to increase user completion rates by 33%

## PROJECTS & EXTRACURRICULAR

### Ant Colony Simulator | Python, NumPy

- Developed custom algorithms to replicate realistic ant behaviour in a user-friendly interactive environment
- Designed an ant colony optimisation algorithm for pathfinding, improving ant food collection efficiency by 74.78%
- Integrated vector mathematics and geometric algorithms to accurately detect and resolve collisions between entities
- Implemented a grid system using NumPy matrices to efficiently manage pheromone strengths and positions

### Terminal-Based Text Editor | C

- Developed a text editor using C without external libraries, featuring search functionality and syntax highlighting
- Implemented a dynamic text buffer to handle text insertions and deletions, reducing memory reallocation by 90%

### Breast Cancer Patient Management System | Django, Pandas, Python Image Library (PIL), React, PostgreSQL

- Led a team of 4 in developing a web app for oncologists during the TechAcademia x DotPlot Accelerator programme
- Developed a tool using PIL to automatically highlight tumor regions on a torso image based on specified coordinates
- Implemented Django models and RESTful APIs to handle CRUD operations and to process data using pandas

### Mercury Capital Management (Student Led Investment Fund) | Python, NumPy, QuantConnect

- Developed a statistical arbitrage trading strategy achieving 38% annual returns and presented to the fund's members

## SKILLS

**Programming Languages:** Python, Java, C, C++, SQL, JavaScript, TypeScript, HTML, CSS

**Technologies/Frameworks:** NumPy, Pandas, Matplotlib, Flask, Django, ExpressJS, React, NodeJS

**Tools:** Git, Firebase, Postman, Figma