

# 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

Cambridge, United Kingdom

Software Engineer Intern

Jun 2025 – Aug 2025

- Optimised cryptography for ARM's IPsec-MB library by enhancing architecture support and performance using C
- Restored RSA acceleration in OpenSSL for ARMv8 big-endian systems to support fast, hardware-accelerated crypto
- Rebased 3 months of upstream IPsec-MB changes into ARM's fork, preserving SIMD cryptographic compatibility
- Discovered and fixed a native test suite failure in C++, enabling 100% benchmark coverage beyond emulated systems

### Service101 (Contracted through TechCortex)

Remote

Software Engineer

Jan 2025 – Jul 2025

- Developed a platform for Service Advisors used by 150+ dealerships with React, Next.js, and Supabase
- Refactored and optimised codebase, reducing 500+ lines of code and enhancing overall user experience
- Wrote tests for 25+ TypeScript files using Jest and resolved 4 critical production issues, improving site stability

### Millennium

London, United Kingdom

Meet Millennium (Spring Insight Programme) Selected Participant

May 2025

- Explored trading, technology, and AI innovation at Millennium through talks, alumni panels, and workshops
- Won the team engineering trading challenge with a Python arbitrage strategy, generating £50M+ on new data

### Susquehanna International Group (SIG)

Dublin, Ireland

Discovery Days (Spring Insight Programme) Selected Participant

Apr 2025

- Gained insights into trading and technology at SIG through employee shadowing, networking, and workshops

### Citadel

London, United Kingdom

Discover Citadel & Citadel Securities (Spring Insight Programme) Selected Participant

Mar 2025

- Selected as one of 80 from 4,729 applicants across Europe to gain insights into Citadel and Citadel Securities through networking with employees and workshops in quantitative finance, trading, and engineering

## 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, SQL, JavaScript, TypeScript, HTML, CSS

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

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