Osi Mayungbo

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EDUCATION

University of St Andrews — Fife, United Kingdom
BSc (Honours) Computer Science — *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*

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

Susquehanna International Group (SIG) — Dublin, Ireland
Discovery Days (Spring Insight Programme) Selected Partipant — *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 Partipant — *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

Service101 (Contracted through TechCortex) — Remote
Software Engineer — *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 — Remote
Software Engineer Intern — *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