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 — Dublin, Ireland
Technology Spring Week: Selected Partipant — *Apr 2025*
- Selected to attend exclusive upcoming Spring Insight programme

Citadel — London, United Kingdom
Discover Citadel & Citadel Securities Spring Week: Selected Partipant — *Mar 2025*
- Selected to attend exclusive upcoming Spring Insight programme

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