

# Osi Mayungbo

01m1.github.io | osimayungbo@gmail.com | github.com/01m1 | linkedin.com/in/osi-mayungbo/

## EDUCATION

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### 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

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### Arm

Software Engineer Intern

Cambridge, United Kingdom

Jun 2025 - Aug 2025

- Incoming Software Engineer Summer Intern

### Bank Of America

Global Technology & Global Operations Spring Insight Attendee

Chester, United Kingdom

Apr 2025

- Selected to attend exclusive upcoming Spring Insight programme

### Susquehanna International Group

Technology Discovery Day Attendee

Dublin, Ireland

Mar 2025

- Selected to attend exclusive upcoming Spring Insight programme

### 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
- Developed a user review system that displays an overall rating of freelancers with sorting and filtering options
- Redesigned a long sign-up form into a friendlier multi-step form estimated to increase user completion rates by 33%

### National Cyber Security Centre & SANS

CyberDiscovery Elite Attendee

Remote

Jul 2020 – Aug 2020

- Competed in challenges to be selected as 1 of 200 (from 35,000) for the final stage of cybersecurity programme
- Applied advanced skills such as vulnerability analysis to win a penetration testing competition in a team of 4

## PROJECTS & EXTRACURRICULAR

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### 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%
- Utilised low-level system calls and terminal control sequences to handle keyboard input and cursor movement

### 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
- Collaborated with a team to analyse market data, backtest strategies, and implement risk management protocols

## SKILLS

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**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