

# Ayomide Adesiyan

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## Profile

Computer Science student at the University of Nottingham (First Class predicted, 79% average) specialising in **AI/ML, computer vision, and backend systems**. Experienced in building real-time AI applications, algorithmic trading systems, full-stack mobile apps, and personal web platforms. Strong focus on **performance optimisation, data-driven systems, and applied machine learning**.

## Education

**University of Nottingham** Sep 2024 – Present  
*MSci (Hons) Computer Science – Predicted First Class Honours*

- First-year average **79%**; top marks in Computer Architecture (94%), Programming & Algorithms (88%), Software Engineering (83%).

**Sir Joseph Williamson's Mathematical School** 2022 – 2024  
A-Levels: Mathematics (A), Further Mathematics (B), Computer Science (B)

## Technical Skills

<b>Languages</b>	Python, Java, C/C++, JavaScript, SQL
<b>AI/ML</b>	PyTorch, TensorFlow Lite, MediaPipe, NLP/LLMs, model fine-tuning
<b>Backend</b>	REST APIs, FastAPI, Firebase, Linux, Git
<b>Frameworks</b>	SwiftUI, Spigot/Paper API, Unreal Engine 5
<b>Tools</b>	VS Code, Jupyter, Agile/Scrum, Azure (exposure)

## Projects

**Personal Portfolio Website** 2025 – Present

- Designed and developed a personal portfolio website from scratch to showcase projects, technical skills, and experience.
- Built the full site independently, demonstrating front-end development, deployment, and personal branding skills.
- Created a central platform for recruiters and collaborators to view projects, contact details, and technical work.

**Full-Body Real-Time Motion Tracker (MediaPipe Holistic)** Sep 2025

- Built a real-time computer vision system detecting **pose, face, and hand landmarks** using MediaPipe Holistic.
- Achieved **0.4s latency** with smooth motion tracking through GPU acceleration and optimised frame processing.
- Integrated **OpenCV + TensorFlow Lite** with multi-panel visualisation (pose, hands, face tracking).
- Implemented landmark velocity tracking to reduce noise and improve motion stability.

**AI Trading System (Algorithmic Trading & Data Pipelines)** Jul 2025 – Present

- Developed trading bots analysing **5 market sectors** using simulated portfolios.
- Designed data pipelines where models evaluate market conditions **every 30 seconds** and execute buy/sell decisions.
- Applied basic algorithmic strategies and meta-model comparisons to improve decision-making performance.

**iOS Social Challenge App (SwiftUI + Firebase)** Aug 2025 – Present

- Building a social platform connecting students through event-based challenges.
- Implemented **Firestore Authentication, Firestore, and Push Notifications**.
- Designed swipe-based UX and group voting system to drive engagement.

**DrunkCraft – Minecraft Plugin (Java)**

Oct 2025 – Present

- Developed a Spigot/Paper plugin with event-driven gameplay logic and configurable systems.
- Implemented real-time event listeners (achievements, deaths, mining) triggering dynamic in-game actions.
- Designed modular **config.yml system** for customisation and scalability.
- Achieved **40+ downloads organically with zero promotion**, demonstrating real user adoption.

## Experience

**Haven** – Activities Team Member

Jun 2025 – Sept 2025

- Delivered customer-facing activities in a fast-paced environment, maintaining safety and engagement.
- Recognised for strong communication and adaptability under pressure.

**AmTrust Financial Services** – IT Intern

Sep 2024

- Observed enterprise-level IT systems, cybersecurity processes, and infrastructure management.

## Achievements

- 100% in 11+ Mathematics and Reasoning exams.
- UK Maths awards: 3× Gold, Senior Kangaroo Merit, Olympiad Bronze.
- Nominated for the **Mitacs Research Programme**.

## Interests

Artificial Intelligence, computer vision, quantitative finance, automation, and LLM technologies.