

MICHAEL OGUNRINDE

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PROFILE

BSc Computer Science graduate from Sheffield Hallam University with skills in machine learning, AI, and full-stack web development. Experienced in both individual and team-led projects, with strengths in leadership, problem-solving, and communication. Seeking opportunities in software engineering, data science, or AI-driven development.

Education

Sheffield Hallam University **2022-2025**

*Bachelor of Computer Science **First Class Honours 1st***

Barnsley Sixth Form (A levels) **2020-2022**

Information Technology – A Computer Science – B Math – C

Technical Skills

- | | | | |
|--------------|--------------|--------|-------------------|
| • C# | • MySQL | • PHP | • Web Development |
| • JavaScript | • SQLite | • CSS | • Windows Forms |
| • React | • phpMyAdmin | • HTML | • Python |

Portfolio Final Project

Kool Kaftan – Inventory Management System

Co-leadership/ Full stack development

Feb 2023 – Apr 2023

- Led 5-member team to replace Excel-based stock tracking with web solutions, improving efficiency by **100%**.
- Delivered intuitive interface, mobile accessibility, and systematic requirements gathering.
- Awarded **highest grade** in software project module.

Product Rating System with Sentiment Analysis (PRSSA)

Developer

Feb 2023 – Apr 2023

- Built sentiment-driven product rating system with recommendation engine and admin controls.
- Designed interactive user platform, improving engagement and usability.

Ai Tutor System for Personalised learning and Adaptive Feedback using multi-agent system

Sole Developer

Feb 2025 – Apr 2025

- Built multi-agent architecture (question generation, hints, adaptive feedback).
- Integrated **DKT+ model** for performance prediction and mastery tracking.
- Deploy with **FastAPI + PostgreSQL**, added gamification for engagement.

University Positions

Student Assistance

- Mentored peers and supported coursework, improving understanding of complex topics.
- Collaborated with faculty while balancing academic responsibilities.
- Strengthened communication, time management, and mentoring skills

Student Representative

- Collected and analyse student feedback through surveys/interviews.
- Presented findings to course leaders, advocating for course improvement.
- Contributed to academic quality by addressing student concerns,

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Careers

Google DeepMind Research Ready Program (2 month)

Deep Learning Trajectory Deconfliction – Provok Lab, University of Cambridge

July 2024 – Sep 2024

- Collaborated with Cambridge's Provok Lab to extend a **2D trajectory model** into a **3D obstacle-aware deep learning framework**.
- Implement **CNNs** and **MLPs** in PyTorch for spatial data encoding and obstacle processing.
- Designed custom datasets, training pipelines, and a **multi-objective loss function** balancing accuracy, smoothness, and collision avoidance.
- Evaluated performance with interactive **3D visualisation** (ipyvolume, matplotlib).
- Presented to Cambridge faculty and postgraduate students; invited to **Google Deepmind** to demonstrate results.
- My experience and work is **featured in an article by the University of Cambridge** Computer Department (["This opportunity is great for people like me"](#)).