

I am a soon-to-be BSc Computer Science graduate from the University of Westminster, currently predicted for First-Class (1st) Honours, with a deep-seated passion for the intersection of Artificial Intelligence and human-centric Design & Development.

SKILLS

Programming & Tools	Python, JavaScript, Java, SQL, HTML, CSS, TensorFlow.js, Node.js, Git, Postman, Jupyter Notebook, MATLAB, Simulink, Tkinter
AI, Systems, & Security	LLM integration, machine learning, model evaluation, adversarial ML, edge computing, database management, software development principles, UX/UI design, cybersecurity principles
Communication	English, Spanish, Italian

TECHNICAL EXPERIENCE

Role | Research Assistant 02 2026 — Present
University of Westminster London, UK

- Project: AI for Better Learning: Automating Organisation of Learning Concept Maps to Improve Student Understanding
- Developed and evaluated a conversational AI chatbot for academic knowledge modelling and student learning support.
- Worked with LLM pipelines and graph-based methods to structure and validate complex content.

Project | womyn.network: An Edge-Based Security-First SPA Implementing Defensive AI 09 2025 — Present

- Designed and developed womyn.network, a security-first Single Page Application (SPA) built to redefine digital space for women.
- Integrated defensive, human-centred AI into the client-side architecture to enable proactive safety and social features.
- Implemented an edge computing model, allowing real-time, on-device processing for enhanced privacy and responsiveness.
- Applied adversarial image perturbation techniques to help protect user-generated content from AI-based analysis.

Project | Autonomous Robot Navigation using Reinforcement Learning | Grade: 91 2025/6

- Implemented a Q-learning algorithm (Python/NumPy) for autonomous navigation in unknown environments.
- Developed a dynamic maze parser for configurable simulations and optimal pathfinding.
- Evaluated performance against an MLP model, analysing limitations of supervised learning.

Project | Risk-Aware Pedestrian Navigation System, A* Pathfinding & GIS | Grade: 89.75 2025/6

- Built a custom A* search algorithm in Python to optimise walking routes based on distance and safety risk.
- Designed a heuristic combining geospatial distance with weighted crime severity scores.
- Integrated OpenStreetMap data with 1M+ Police.uk crime records using efficient spatial indexing.

Project | Dynamic Control System Modelling (MATLAB/Simulink) | Grade: 92 2024/5

- Modeled a non-linear two-tank fluid system using MATLAB and Simulink.
- Designed a closed-loop PID controller for autonomous level regulation.
- Conducted stability analysis using Bode and step response methods.

Project | Medical Survival Prediction System | ML Classification & Regression 2024/5

- Built classification and regression models to predict patient mortality and survival time.
- Implemented k-NN, Logistic Regression, and Decision Trees with GridSearchCV optimisation.
- Developed classifiers and applied rigorous preprocessing and validation.

Project | SKY Health Check Django Python Application 2023/4

- Developed a responsive, user-focused full stack platform using Python and Django.
- Implemented core user flows and interaction logic, enhancing usability and overall user experience.
- Collaborated effectively within a team, taking a leading role in planning, organisation, and UX/UI design.

EDUCATION

Bachelor of Science (Hons) in Computer Science, University of Westminster 2022—2026

Predicted: First-class Honours (1st), Thesis: Engineering A Security-First SPA: Implementing Defensive AI for an Edge-Based Woman-Only Social Web Application

HONORS, AWARDS, & ACTIVITIES

AI & Innovation Ideathon — Cognizant × Aston Martin F1 May 2026 — July 2026

- Selected as one of 15 students for a competitive industry programme in collaboration with Cognizant and Aston Martin Formula One.
- Developed AI-driven concepts for fan engagement, real-time content, and data-driven storytelling, explored GenAI and predictive systems in sports marketing and digital platforms.
- Collaborated in a team environment with mentorship from industry professionals.
- Delivered a final presentation at Aston Martin F1 Headquarters, pitching solutions to stakeholders.

Fully Funded Scholarship on the Cognizant AI Pathways Programme 2026

Winner of a fully funded place on the APMG Artificial Intelligence Practitioner course. Includes a Tech4Good placement with Cloud Crew, delivering pro-bono technical solutions for charities and NGOs.

CERTIFICATIONS

Agile Software Development: Transforming Your Organization Certificate	Issued 2026
Python Code Challenges for Object-Oriented Programming Certificate	Issued 2026
Simulink Onramp MathWorks	2024