

Fridalí Gaías

Founding Engineer · AI & Software Developer · Research Assistant

fridaligaías.github.io · github.com/fridaligaías · linkedin.com/in/fridaligaías

Computer Science graduate (First-Class) and Founding Engineer at a start up with experience spanning AI research, machine learning, full-stack development, robotics, and product engineering. Currently leading development of an AI-powered consumer platform while contributing to university research on LLM-driven educational systems. Interested in software engineering, AI/ML, robotics, and technical leadership.

Selected Achievements

- Ignite Fund recipient for Phase 2 development of womyn.network.
- Selected as one of 15 students for a competitive industry programme in collaboration with Cognizant and Aston Martin Formula One.
- Winner of a fully funded scholarship on the APMG Artificial Intelligence Practitioner course. Includes a Tech4Good placement with Cloud Crew, delivering pro-bono technical solutions for charities and NGOs.

Experience

Founding Engineer | Skinario

May 2026 – Present

Remote / London, UK

- Sole technical lead responsible for designing and building the MVP of an AI-powered consumer platform from concept to beta release.
- Own full-stack engineering, product architecture, technical strategy, data systems, infrastructure, and scalability decisions.
- Collaborating directly with the founder to translate product vision into scalable technical solutions.

Research Assistant | University of Westminster

Feb 2026 – Present

London, UK

- Developed and evaluated an LLM-powered educational chatbot for a research project investigating automated concept-map generation.
- Worked with LLM pipelines and graph-based methods to structure and validate complex educational content.

Founder & Developer | womyn.network

Sep 2025 – Present

Remote

- Lead development of a security-first SPA with defensive AI and edge-based processing for privacy-preserving social features.
- Awarded Ignite Fund by the University of Westminster for Phase 2 development.

Technical Projects

womyn.network – Defensive AI Social Platform

2025/26

- Final-year thesis investigating the application of adversarial machine learning for proactive image protection within online social platforms.
- Designed and developed a security-first social platform integrating client-side image protection using TensorFlow.js and iterative perturbation techniques.
- Evaluated privacy-preserving, on-device image processing workflows aimed at reducing vulnerability to AI image analysis, manipulation, and synthetic media generation.

Autonomous Robot Navigation – Reinforcement Learning

2025/26 | Grade: 91

- Implemented a Q-learning algorithm in Python/NumPy for autonomous navigation in unknown environments.
- Developed a dynamic maze parser for configurable simulations and optimal pathfinding; benchmarked against an MLP model.

SafeWalk: Risk-Aware Pedestrian Navigation – A* & GIS

2025/26 | Grade: 89.75

- Built a custom A* algorithm in Python optimising walking routes by distance and safety risk.
- Integrated OpenStreetMap data with 1M+ Police.uk crime records using spatial indexing and a crime-severity heuristic.

Dynamic Control System Modelling – MATLAB/Simulink

2024/25 | Grade: 92

- Modelled a non-linear two-tank fluid system; designed a closed-loop PID controller; conducted Bode and step-response stability analysis.

Education

BSc (Hons) Computer Science – First-Class Honours | University of Westminster

Sep 2022 – May 2026

Thesis: Engineering A Security-First SPA: Implementing Defensive AI for an Edge-Based Woman-Only Social Web Application

- Relevant Modules: Computer Systems & Networks, Software Development, Trends in CS, Computer Systems Fundamentals, Web Design & Development, OOP, Database Systems, Client-Server Architectures, Machine Learning & Data Mining, Robotic Principles, Applied Robotics, Applied AI, Digital Marketing, Social Media & Web Analytics, Cyber Security.

Research & Presentations

- **QuGUI – ECT*, FBK, European Centre for Theoretical Studies** (2019–21): developed a Python GUI for numerical experiments on isolated qubit dynamics; supervised by Dr. Giovanni Garberoglio.
- **AI for Better Learning – University of Westminster** (2026): contributing to research on LLM-driven educational chatbots and automated organisation of learning concept maps.
- **AI & Innovation Ideathon – Cognizant x Aston Martin F1** (2026): selected among 15 students to develop AI-driven fan engagement concepts.

Honours, Awards & Programmes

- **Ignite Fund Winner** – University of Westminster (Apr 2026): awarded funding for Phase 2 of womyn.network.
- **Fully Funded Scholarship** – Cognizant AI Pathways Programme (2026): APMG AI Practitioner course and Tech4Good placement with Cloud Crew.

Skills

Programming & Tools	Python, JavaScript, SQL, Java, HTML, CSS, Node.js, Git, Postman, Jupyter, MATLAB, Simulink, TKinter
Web & Product Stack	TensorFlow, TF.js, Firebase/store, Parcel, SEO, product deployment
AI, Systems, & Security	LLM integration, adversarial ML, machine learning, model evaluation, edge computing, database management, software development, UX/UI design, cybersecurity principles
Languages	English, Spanish, Italian

Certifications

- Agile Software Development: Transforming Your Organization Certificate – LinkedIn Learning
- Python for Object-Oriented Programming Certificate – LinkedIn Learning
- Simulink Onramp, MathWorks
- Android Mobile Certificate, Google (via Three UK)
- Lab Safety Certificate – University of Trento

Experience Cont.

Customer Team Member | Co-operative Group

Jan 2023 – Present

Didcot, UK

- Balance part-time employment alongside my Computer Science degree.
- Trusted with cash handling, stock management, and customer-facing responsibilities in a fast-paced environment.

Retail Customer Advisor | Three UK (Hutchison 3G)

Jul 2021 – Jun 2022

Didcot, UK

- Advised customers on mobile devices, connectivity, and digital services while consistently meeting sales and service targets.
- Earned Google Android Mobile Certification.

English Tutor | Freelance

Sep 2019 – Jul 2021

Remote

- Delivered English Language & Literature tutoring to children of varied ages and abilities; adapted to individual learning needs.

Events Organiser & Barista (Volunteer) | Sparky's Café, Richmond Fellowship

May 2016 – Jul 2019

Guildford, UK

- Trained volunteers with disabilities in office tasks, computer skills, and Health & Safety; organised mental health workshops.