

Sofiya Flenova

07508 027342 • London • sofiya.flenova.24@ucl.ac.uk • [LinkedIn](#) • [Portfolio](#)

PROFESSIONAL EXPERIENCE

AI Product Engineer — Socrio

Feb 2026 – Present:

- Designed and shipped a production RAG AI assistant for UK universities, achieving 96% accuracy and sub-5-second retrieval on live institutional data
- Built an LLM-as-judge evaluation pipeline for automated hallucination detection and claim-level source verifications
- Automated daily evaluation and background AI workflows in production
- Integrated the assistant with universities' live SIS/ERP systems and shipped the full platform end-to-end on cloud-native infrastructure

AI & HCI Researcher — UCL

Jun 2025 – Jun 2026:

- Developed and optimised spline-based trajectory planning for acoustic levitation systems (*OptiSpline*) within the Multi-Sensory Devices Research Group (AcousTools), achieving a 30% improvement in smoothness, stability, and particle control under the supervision of Prof. Sriram Subramanian
- Led a cross-disciplinary research project, *EbbFlow*, in collaboration with UCLIC and the GDI Hub. Developed an HCI-driven software artefact leveraging reinforcement learning to support focus, workflow regulation, and writing outcomes for academics with ADHD

Team Lead and Simulation Developer — Cisco

Feb 2026 – Apr 2026:

- Led development of HALO: a privacy-first multi-agent smart-home system where autonomous agents negotiate heating, appliances, and schedules locally over a message bus with no cloud orchestration
- Architected SimPy simulation + FastAPI/SSE dashboard with human-in-the-loop control; scenarios include carbon-aware scheduling and device failure recovery

Artificial Intelligence Technical Lead — FutureLabs, InformingChoicesNI Feb 2026 – Mar 2026:

- Leading the design and development of an AI-powered digital feedback platform for a non-profit organisation
- Architecting accessible form interfaces tailored for users with disabilities, ensuring compliance with inclusive design principles

EDUCATION & TECHNICAL SKILLS

Technical Skills

- **Languages & Backend:** Python, TypeScript, SQL, FastAPI, REST APIs, Git
- **Machine Learning & AI:** PyTorch, Scikit-learn, Transformers, Reinforcement Learning, Model Evaluation
- **LLM Systems:** RAG, Agentic AI, LLM Evaluation, MCP
- **Infrastructure:** Docker, Kubernetes, Helm, AWS
- **Tools:** NumPy, Pandas, MATLAB, Simulink, Tableau

Education

UCL, London — MEng Robotics and Artificial Intelligence
Sep 2024 – Present