

Anton Gomes

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EDUCATION

University of Edinburgh

2021 – 2025

BSc (First Class Hons) in Computer Science and Mathematics

Edinburgh, United Kingdom

- Specialised in Machine Learning/AI and pure maths, with coursework in data science, applied ML, agent-based AI, and mathematical foundations including topology, analysis, and differential geometry.
- Dissertation focused on adapting an open source embedding model for fashion recommendation, working in collaboration with Moonsift, providing experience in applied research and ML development.

RELEVANT WORK EXPERIENCE

UseNeuron — AI Engineer

June 2025 – September 2025

AI Consultancy startup (est. Nov 2024)

Edinburgh, United Kingdom

- Developed custom AI agents for small/medium businesses in tech adverse industries such as surveying and property management, working end-to-end with non-technical clients to translate business needs into solutions.
- Gained system design and production AWS experience as a key developer on greenfield agentic workflow platform.
- Full ownership of deliverables and exposure to rapid development cycles, learning to prioritise work and communicate clearly with stakeholders across all organisational levels.
- Managed 3 interns, developing leadership skills and learned to balance team and individual responsibility.

Moonsift — AI Engineer Intern

Feb 2024 – June 2025

E-commerce startup (est. 2018)

Remote

- Developed web-based AI agent using React, FastAPI, Pydantic and Langchain, automating 80% of chrome extension site-integrations and reducing manual overhead by 600%.
- Led site integrations team managing two student interns, maintaining Chrome extension integrations (30,000+ users) across 2000+ sites.
- Engaged directly with customers on support and feature requests, improving communication skills.

University of Edinburgh ISG — Web Development Intern

Jun 2023 – Apr 2024

Leading ed-tech provider

Edinburgh, United Kingdom

- Developed full-stack website audit app with large-scale web-crawler for 800,000+ Edinburgh University sub-sites, improving digital accessibility and user experience across the university community.
- Delivered MVP within 2 months, presenting demos across university teams and contributing to major CMS improvements that enhanced information access for students and staff.

Melville Gomes Associates — AI & Technology Consultant

Intermittent

Family surveying firm

Glasgow, United Kingdom

- Advised on technology strategy, including AI adoption, CRM integration, SEO, and workflow automation. Designed and built a lightweight LLM-powered automation tool to streamline report generation.

PROJECTS

Fashion-Forward | *EDA and neural recommender system (undergraduate dissertation)*

Sep 2024 – Apr 2025

- Conducted exploratory analysis of Moonsift's proprietary e-commerce dataset, discovering that users exhibit consistent directional patterns in embedding space during shopping journeys.
- To align research goals with company direction fine-tuned open-source multi-modal embedding model (CLIP) using shopping journey patterns creating competitive neural recommender system.
- Designed and executed full experimentation and evaluation of neural recommender architecture.
- Won first place for project presentation from 100+ candidates.

AutoTab | *Guitar transcription using fine-tuning and transfer learning of Whisper*

Jan 2025 – Mar 2025

- Led team of 3 developing AI system to automatically generate guitar tablature from audio by adapting Whisper transformer architecture (OpenAI STT model) for music transcription, achieving state-of-the-art performance.
- Processed 600k+ songs to create comprehensive training dataset for polyphonic guitar transcription.

SKILLS

- **Languages:** Python, TypeScript, HTML + CSS, LaTeX.
- **ML/AI Tools:** PyTorch, LangGraph, LangChain, PydanticAI, Polars, Pandas, Matplotlib, Seaborn, scikit-learn.
- **Development:** FastAPI, React, Pydantic, Git, OTel, web scraping (Scrapy, BeautifulSoup), system design.
- **Cloud Platforms:** AWS (ECS, AppRunner, Amplify, Cognito), GCP (BigQuery, Cloud Storage).
- **Misc.:** Portuguese B2 CEFR; university rugby team captain (team of the year nomination), public speaking.