Anton May

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Summary

I work very well on small project teams: I can pull my weight on the technical side, but also act as an enthusiastic "shaper" who encourages creativity and structured progress. While a particular interest of mine right now is ML in signal processing, my software experience comes primarily from past projects such as games, personal automations, and physics simulation algorithms (in Python, C++, MATLAB). I am familiar with software engineering best practices due to my engineering course which teaches up to data structures and algorithms in C++. As someone who would like experience in a startup environment, it excites me to be gaining access to tools which will allow me to collaborate with other people who have drive, ambition, and know-how, and hopefully contribute towards a polished, robust, maintainable, and desirable product.

Work Experience

Software Engineer Intern - Valor Carbon Aug 2025 - Sep 2025

- Designed and created a tool to automatically fill in project design documents using RAG systems for LLMs
- Gained experience with web hosting via Oracle Cloud and making a secure app which handles multiple users' data
- Built agentic AI systems and reflected on how to actually make a useful tool rather than forcing automation where unnecessary

Software Development Intern - AIDA-3D Jun 2025 - Sep 2025

- Developed an interactive 3D viewer and annotation tool for multi-layer medical images to align with the OME-Zarr v0.5 specification
- Gained skills in web development with Next.js, Three.js and building my own marching cubes algorithm
- Interpreted complex and poorly documented data pipelines, and was introduced to Rust

LLM Performance Evaluator - Outlier 2024 - present

- Analysing the outputs of LLMs in response to technical prompts, for correctness, relevance, and clarity
- Suggesting improvements and corrections to outputs in software (C++) and mathematics domains

Product Design Assistant - Digital Catapult Aug 2023

Attended meetings with 20 startups competing for funding on the "Machine Intelligence Garage" programme, discussing NLP, CV, and Automatic Speech Recognition, and evaluated the feasibility of various business strategies based on the technologies and methods involved.

Academical Clerk - Choir of New College, Oxford 2022 - present

Employed in one of the world's leading choirs, performing 5-7pm six times a week during term-time alongside university work, requiring commitment and time management.

Projects

Analysing radiology reports using large language models Sep 2025 - present

4th year solo engineering project focusing on specialised local LLMs in agentic fact-checking and info-filling systems to sort reports and flag inaccuracies. Combines ML with healthcare applications for automated quality assurance in medical reporting.

Intelligent Musical Lighting System - Project Leader Oct 2024 - present

Leading a team of 4 to explore solutions for fully automating live concert lighting through a real-time AI interpreter that tracks musical features to determine mood and section changes.

Microsoft Imagine Cup - Solo Participant Aug 2024 - present

Designing a low-power IoT implant which detects signs of ischemic stroke early, to improve response times and diagnostic accuracy in medical emergencies.

All-Innovate - College Winner, Saïd Business School Sep - Dec 2022

Expanded on smart glasses project by considering other categories for product expansion, and refined analysis of predicted costs and growth.

Samsung Solve For Tomorrow - Finalist Jan - Jul 2022

Team of 4 designing smart glasses for people with hearing impairment, involving IoT, AI speech recognition, and ergonomics. Made final 5 teams, pitching design and business plan to 5 Samsung UK executives.

Education

2022 - 2026 **MEng Engineering Science (4th year), New College, University of Oxford** (Predicted 2:1)
83% in Engineering Computation practical module (one of the highest marks in my year)
70% in paper on control, programming, and computer architecture (including MIPS language)
78% in lab coursework (including work in Python, C++, Matlab, and P4)
Current modules: Project Management, Engineering Computation, Information Engineering Systems,
Control Systems, Software Engineering, Machine Learning, Biomedical modelling and monitoring

2015 - 2022 **Wilson's School, Sutton** A* in Further Maths, Maths, Physics, and Music

Publications

Skills

Programming Languages	Python, C++, MATLAB, Rust, JavaScript/TypeScript, P4, MIPS assembly
Web Development	Next.js, Three.js, React, Node.js, Oracle Cloud hosting, secure multi-user applications
Machine Learning & AI	Large Language Models, RAG systems, agentic AI, signal processing, computer vision, NLP
Software Engineering	Data structures & algorithms, software architecture, version control, testing, project management
Specialized Skills	3D graphics, marching cubes algorithms, medical imaging (OME-Zarr), IoT development, physics simulation