Anton May

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WORK EXPERIENCE

Software Development Intern - Big Data Institute, Oxford   Jun 2025 - present
– Developed an interactive 3D medical image viewer with annotation tools for OME-Zarr v0.5 specification
– Built a custom marching cubes algorithm and created a robust 3D viewer from scratch in three.js
– Reverse-engineered complex, poorly documented data pipelines, turning a demo into a useful tool
– I continue to maintain and improve AIDA-3D in my spare time - check out the **repository**

Software Engineer Intern - Valor Carbon   Aug 2025 - Sep 2025
– Designed an automated document generation tool using LLMs and RAG for project specifications
– Deployed a secure multi-user application with Oracle Cloud hosting and server-side database
– I learned that, with agentic systems, it is best to focus on practical automation over forced implementation

LLM Performance Evaluator - Outlier   Dec 2024 - Apr 2025
– Evaluated LLM outputs for accuracy, relevance, and clarity across software and mathematics domains
– Provided detailed feedback and corrections for C++ programming and mathematical reasoning tasks

Academical Clerk - New College, Oxford   Oct 2022 - present
– Performing daily alongside my studies as a professional singer in a globally renowned choir

PROJECTS

Analysing radiology reports using large language models   Sep 2025 - present
My final year engineering project. I am developing specialized systems using local task-specific LLMs and RAG
to automate medical report validation, quality assurance, sorting, and general information extraction.

Intelligent Musical Lighting System - Project Leader   Oct 2024 - May 2025
Leading a 4-person team developing an AI system for automated live playback of precomputed concert lighting
based on musical feature analysis and mood detection. My contributions were in audio alignment (i.e. "where
in the music are we relative to the audio used for precomputed features"), and overall project management.

Samsung Solve For Tomorrow - Finalist   Jan 2022 - Jul 2022
Designed IoT smart glasses to display subtitles for everyday conversations - now an idea implemented in the 2025
Meta Ray-Ban Display. We advanced to the final 5 teams, and pitched our design to Samsung UK executives.

EDUCATION

MEng Engineering Science, University of Oxford (predicted 2:1)   Oct 2022 - Jul 2026
– 83% in Engineering Computation (3rd highest in year). My **report** designs an audio-based tempo detection
  system and a quantitative benchmark to compare my implementation with an AI-generated one.
– 4th year focus: computer vision, deep learning, statistics, software engineering, quantum computing

SKILLS

Basic	Very well-versed in Git, standard team workflows, and programming best practices
Languages	Python, JavaScript/TypeScript, MATLAB, C++, Rust, MIPS assembly
Web Development	Next.js, Three.js, WASM, Oracle Cloud, deployment and distributed systems
Machine Learning	OpenCV, PyTorch, classical optimisation, varied sampling methods
LLMs	RAG systems, MCPs for agentic AI, subject-specialized local LLMs on limited hardware
Specialized	3D graphics, medical imaging, IoT development