# Anton May

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## WORK EXPERIENCE

**Software Development Intern - Big Data Institute, Oxford**          Jun 2025 - present
– Developed interactive 3D medical image viewer with annotation tools for OME-Zarr v0.5 specification
– Built custom marching cubes algorithm and created a robust 3D viewer from scratch in three.js
– Reverse-engineered complex, poorly documented data pipelines and created a useful, usable tool

**Software Engineer Intern - Valor Carbon**          Aug 2025 - Sep 2025
– Designed automated document generation tool using RAG-enhanced LLMs for project specifications
– Implemented secure multi-user application with Oracle Cloud hosting
– Developed agentic AI systems with focus on practical automation over forced implementation

**LLM Performance Evaluator - Outlier**          Dec 2024 - Apr 2025
– Evaluate LLM outputs for accuracy, relevance, and clarity across software and mathematics domains
– Provide 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
Solo engineering project developing specialized LLMs for automated medical report validation and information extraction, combining machine learning with healthcare quality assurance systems.

**Intelligent Musical Lighting System - Project Leader**          Oct 2024 - May 2025
Leading 4-person team developing real-time AI system for automated concert lighting based on musical feature analysis and mood detection.

**Samsung Solve For Tomorrow - Finalist**          Jan 2022 - Jul 2022
Designed IoT-enabled smart glasses with AI speech recognition for hearing-impaired users. Advanced to final 5 teams, presenting 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) - designed 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

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| Programming | Python, C++, JavaScript/TypeScript, Rust, MATLAB |
| Web Development | Next.js, Three.js, React, Oracle Cloud, secure multi-user applications |
| AI & Machine Learning | LLMs, RAG systems, agentic AI, signal processing, computer vision |
| Specialized | 3D graphics, medical imaging (OME-Zarr), IoT development |