Melinda Morkeh

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Education

University of Oxford   Oct **2024 - Present**
Computer Science Integrated Masters (BA / MCompsci), passed first year, and achieved a distinction in the practical component.

Herschel Grammar School   Sep **2022 - Jun 2024**
A-Levels: Mathematics (A*), Further Mathematics (A), Computer Science (A) and English Literature (B).

Work Experience

Insight Programme - Jane Street   **Apr 2025**
London, UK
- Selected through a competitive application process to participate in a one-week insight programme.
- Strengthened software engineering fundamentals by attending in-depth technical sessions on data structures, algorithms, and system design, with emphasis on real-world application.
- Collaborated on programming tasks involving debugging, code optimisation, and performance analysis on a production-style environment.

AI/ML, Database Modelling & Software Engineering Internship - Legal-Pythia LLP   **Mar 2025**
Remote
- Interned at Legal-Pythia for a week, contributed to a Python-based document reading software.
- Collaborated on version management using GitHub and enhanced file processing for an LLM.
- Made key improvements, boosting scalability and professional usability, allowing the software to be used on two more types of documents, alongside writing clear and comprehensive tests for program usage.

FOCUS Programme - Jane Street   **Jan 2025**
London, UK
- Selected for a two-day programme involving live trading simulations and time-critical problem-solving tasks.
- Gained practical insights into market making and investor strategies, consistently generating in simulations.
- Successfully resolved a high-pressure incident management challenge within a strict 20-minute deadline.

Summer Work Experience - J.P. Morgan Chase   **Aug 2023**
London, UK
- Spent one week at the technology department at JP Morgan Chase following a successful application.
- Collaborated with others to create a new bank, where my group placed first for our bank design.
- Coded a virtual robot in Java, which was then battled against others, resulting in our robot placing third.

Projects

CV Scanner | Python (Django), Node.js, Tailwind CSS, React, Figma
- Collaborated with a colleague to create a full stack CV scanner, with Django, and using React to create the frontend.
- Created a detailed wireframe using Figma to streamline frontend development.
- Created an interactive website for uploading and extracting data from CVs, allowing for extraction of data, and matched it to keywords from job listings.

Algtrax Algorithm Visualiser | Next.js, React, TypeScript, Tailwind CSS, Monaco Editor
- Built an interactive educational tool that visualises core algorithms step-by-step with animated execution flows.
- Integrated a custom code editor (Monaco Editor) with syntax highlighting and in-browser algorithm execution.
- Implemented GIF export functionality using ffmeg.wasm, enabling users to share algorithm runs as animated clips.
- Used Clerk to manage user authentication.

Portfolio | HTML, CSS (Tailwind), JavaScript, GitHub Pages
- Designed and developed a responsive portfolio website to showcase my projects
- Implemented interactive features like a contact form and project gallery.
- Hosted using GitHub Pages with a custom domain.

Skills and Interests

- Coding Languages: Python, Scala (Proficient), Java, C, Haskell, HTML, CSS, JavaScript, SQL (Intermediate).

- Oxford Afro-Caribbean Society IT Representative, Oxford Women in Computer Science Industry Representative, and member of Oxford Computer Science Society.
- Keble College Women's and Mixed Netball player.
- Able to speak, read and write French (B2).