

Melinda Morkeh

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Education

University of Oxford

Oct 2024 - Present

Computer Science Integrated Masters (BA / MCompsci)

Herschel Grammar School

Sep 2022 - Jun 2024

A-Levels: Mathematics (A*), Further Mathematics (A), Computer Science (A) and English Literature (B).

Herschel Grammar School

2017 - 2022

GCSEs: 10 GCSEs (between grades 9 - 7), including 9s in Mathematics and English Language.

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.

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

Scanly (CV Scanner) | Python (Django), HTML, Tailwind CSS, React

- Collaborated with a colleague to create a full stack CV scanner, with Django, and using React to create the frontend.
- Created an interactive website for uploading and extracting data from CVs, allowing for extraction of data, and matched it to keywords from job listings.
- Hosted the website using Netlify.

Algtrax (Algorithm Visualiser) | Next.js, React, TypeScript, Tailwind CSS, Monaco Editor, AWS Cognito

- 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 ffmpeg.wasm, enabling users to share algorithm runs as animated clips.

- Added user authentication with AWS Cognito, supporting custom sign-up / sign-in flows and future user session management.

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.
- Able to speak, read and write French (B2).