Dylan Heydon-Matterface
Aspiring software engineer | Current undergraduate student

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Personal summary

Determined and motivated student with a passion for software development and emerging technologies. Enthusiastic learner, eager to apply knowledge to exciting practical applications.

Education

Mathematics & Computer Science, University of Oxford
📅 2023 - 2027   🎓 Master's degree

A-levels, Queen Mary's Grammar School
📅 2021 - 2023   🎗 A*A*A*A* (Maths, Further Maths, CS, and Physics)

GCSEs, Queen Mary's Grammar School
📅 2016 - 2021   🎗 13 top grades (including Maths, English, CS, etc.)

Experience

Junior Consultant, TNG Technology Consulting GmbH
📅 August 2025 – September 2025   📍 Oxford, UK; Munich, Germany

- *Project*: Python-based AI-assisted CLI migration tool to upgrade legacy Java projects (Java 8 -> 25) by autonomously upgrading frameworks, dependencies, and build files.
- Implemented new AI features: live LLM streaming; agentic web interactivity; more stable and reliable response validation.
- Usability/performance upgrades: caching to reduce load times 60s -> under 5s; LLM request optimisation to reduce token load; significant typing system modernisation; 70+ new tests.

Growth Data Intern, Azets UK
📅 July 2024 – October 2024   📍 Aldridge, UK

- Significantly improved usability, presentability, and functionality of Tableau dashboards: these are presented to senior colleagues. Presentations are now more informative and user-friendly.
- Used Python and the requests library to query the Companies House API to improve data quality for 15,000+ clients.
- Used VBA and the Tableau REST API to create automated processes to extract data from dashboards. These tools will save colleagues 10+ hours of manual labour per month.
- Created a detailed guide to inform colleagues on creating similar tools in the future to further increase productivity.

Scientific Computing research project, Science & Technology Facilities Council
📅 July 2022   📍 Online

- Used Python and Java to parse ~500MB of weekly train schedule data from National Rail. Repeatedly improved the performance of my code until runtime was under 10 seconds.
- Used Matplotlib, Plotly, and Pandas to produce interactive visualisations, e.g. number of services at each station per hour plotted on a map, graphs of busiest operators.
- Contributed towards the STFC open-source codebase, used by researchers from various fields.

Technical skills

Python Java Scala Haskell

HTML/CSS/JavaScript VBA SQL

C++ Data analysis (e.g. Tableau)

Projects

Encrypted messaging app
Java (front), NodeJS (back)
Handwritten implementation of RSA encryption, encrypted storage on server, support for unlimited size group chats, user profile pictures

Minecraft clone
Java (libGDX)
Optimised 3D graphics (frustum culling, transparency effects, raytracing)

User-editable wiki
HTML/CSS (front), PHP (back)
Wiki markup translation to HTML, version history, user media

WYSIWYG HTML builder
JavaScript (vanilla)
Add, modify, and remove HTML elements; apply styling; download

Online multiplayer *Scrabble*
HTML/CSS/JS (front), NodeJS (back)
Cross-platform, real-time, "just send a link" to play

Soft skills

Problem solving Determination

Communication Leadership

Fast learner Teamwork

Miscellaneous

- In my free time I am undertaking a French language course at university. (My French is B1.)
- I enjoy playing the clarinet. I am involved in three different musical groups at university.
- I regularly volunteer my technical skills (e.g. audio/visual equipment) at local church services and events.