Dylan Coxshall

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Computer Science student at the University of Birmingham, with a focus on systems engineering and computer security.

Top Skills

- **Languages** – Experience in Python (Pandas and NumPy), Java, C, C++, Rust, and full stack web development with JavaScript (React, Node), Express.js, PostgreSQL, and HTML/CSS.
- **Environments** – Experience with Windows and Linux (Ubuntu and Arch). I've also used Docker for working with other students, VMWare for testing personal projects, and Hetzner Cloud for cloud web hosting projects.
- **Networking** – Port forwarding for web and FTP server hosting, as well as remote access via SSH. Currently in the top 6% of TryHackMe users.

Work Experience

GE Aerospace, General Electric, Cheltenham, Gloucestershire, UK (On site)
Software Engineering Intern 06/2024-06/2025

In June, I'll be starting an internship with GE Aerospace in Cheltenham, England. I'll have the chance to work on real embedded systems, working on projects with other interns, as well as senior engineers.

Data Annotation (Remote)
Data Annotator 05/2023-Present

Wrote specialized input for machine learning models to train from. This included writing code in Python, C and C++ to solve intermediate software engineering problems (including writing automated tests), as well as performing elementary data analysis using Python and Excel.

Personal Projects

Dylstatus - A simple status-bar generator for the i3 Window Manager
Dylstatus is a replacement for i3status, and is designed to provide system information to the user on the desktop. Writing dylstatus was my first exposure to interacting with an external API (i3bar Input Protocol) and provided invaluable experience in software engineering.

Dyledit - A lightweight, no-dependencies, terminal-based text editor written in pure Python.
Dyledit is a simple terminal-based text editor, in a similar vein to Vim and Emacs. Developing it gave me a brilliant insight to how development in Python works, and the editor works so cleanly that it now makes up my suite of regularly-used tools, due to how easy it is to use. I have plans to rewrite it in Rust.

Education

BSc Computer Science, Graduating in 2027, University of Birmingham, UK (On track for First Class)
A Levels: Pate's Grammar School, Cheltenham, UK (A*AAA: Mathematics, Physics, Computer Science, EPQ: "How Do Corporations Track Your Data?")