Freeman Chung

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ENGINEERING AND TECHNICAL STUDENT

Second-year BEng Electronics and Computer Science student at the University of Edinburgh with hands-on experience across embedded development, software engineering and electronics prototyping. Builds and tests software in Python, Java and Rust, and prototypes hardware with Arduino, soldering and PCB assembly. Combines engineering practice with clear documentation and student-facing communication. Seeking a Summer 2027 engineering internship.

EDUCATION

University of Edinburgh — BEng Electronics and Computer Science | 2025–2029 • Informatics 1 — 85%

Reading School — A-levels A*AAB (Mathematics, Chemistry, Physics, German)

TECHNICAL EXPERIENCE

Sensors/Telemetry Engineer | HYPED, University of Edinburgh | Nov 2025 - Present

- Developed LED-driver firmware in Rust for an embedded system on a Hyperloop prototype.
- Collaborated in a multidisciplinary engineering team using GitHub,Slack and Discord.
- Currently contributing to the team's telemetry subsystem and developing Verilog skills.

Electronics Engineering Work Experience Programme | Royal Holloway, University of London | Jun 2024

- Built a functional Guitar Hero-style controller combining electronic and mechanically fabricated components.
- Assembled and tested circuits using soldering, Arduino, breadboards and PCBs; used CAD and Fusion 360 in the design process; laser cutting and workshop tools, troubleshooting integration between the electronics and the enclosure.

ENGINEERING AND SOFTWARE PROJECTS

Travel Data Hub — Java, Spring Boot, Angular, Typescript, PostgreSQL

- Built a full-stack Spring Boot REST API and Angular frontend for travel booking management, implementing CRUD operations, input validation, and structured error handling. Designed a double-repository pattern with PostgreSQL via JOOQ and Flyway migrations, supported by comprehensive JUnit 5 and MockMvc integration tests.

Expense Tracker — Python, Flask, SQLite, HTML/CSS, Chart.js, pytest

- Developed a Flask-based personal finance web application with CRUD operations for income and expenses, category filtering, spending analytics and interactive Chart.js visualisation. Wrote automated tests with pytest and used SQLite for persistent storage.

Discord Chatbot — team hackathon project

- Built the frontend and user-facing Q&A system for a Discord chatbot as part of a CompSoc hackathon project, designing the questions and responses users interact with.

Mechanical Engineering 1 — CAD (Fusion 360), remote laboratories

- Completed CAD design and remote laboratory work as part of an optional first-year course.

Electrical Engineering 2 — Currently learning soldering techniques, breadboard prototyping, PCB implementation.

RELEVANT EXPERIENCE

Residential Assistant — University of Edinburgh | Sep 2026 – Present

- Supporting the welfare of 120 residents, running duty nights, residential events, handling incidents and escalation to university services

Programme Representative — Year 2, School of Engineering, University of Edinburgh | Sep 2026 – Present

- Collecting student feedback to staff and representing Electrical and Electronics Engineering students in second year.

Bar Staff – Dunnings Irish Bar, Reading | Jun 2026 – Sep 2026

- Collaborated with team members to efficiently serve drinks and manage high-volume transactions while ensuring compliance with safety standards.

Barista and Team Member — Village Hotels Starbucks, Edinburgh | Sep 2026 – Present

- Preparing diverse coffee beverages, coordinating with team members, and maintaining a clean, organized environment.

Shop Volunteer – Cancer Research UK, United Kingdom | Jun 2026 - Present

- Volunteer worker in shops, cashiering, organising shop and managing stock

TECHNICAL SKILLS

Programming: Python (projects), Rust (embedded project), C, Haskell (coursework); SQL, HTML/CSS

Tools & testing: Git/GitHub, pytest, Arduino, soldering, breadboards, PCBs, CAD/Fusion 360, laser cutting, workshop tools

Other: Microsoft 365