

Tom Lonergan

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SUMMARY

I am a driven and enthusiastic computer science student with a passion for software engineering, especially in the fields of systems programming and operating systems. I enjoy working on new and challenging problems, and have been commended for my ability to quickly pick up new technologies and start contributing to new projects.

EDUCATION

University of Edinburgh

Sept. 2021 – May 2025

Bachelor of Science in Computer Science

Edinburgh, Scotland

- Predicted First Class Honours
- Honours project: "Exploring New Buffer Replacement Policies in Database Systems"
- Focus on operating systems, computer architecture, and networks

EXPERIENCE

Software Engineer Intern

June 2024 – Aug. 2024

Microsoft

Dublin, Ireland

- Skills: TypeScript, React, Node.js, C#
- Implemented in product feedback for MySignins
- Developed end-to-end tests for Azure Portal using Playwright
- Created an internal tool for resolving customer admin lockouts

Head of Software

July 2023 – July 2024

HYPED — University of Edinburgh Hyperloop Team

Edinburgh, Scotland

- Skills: C++, embedded systems, leadership
- Led a team of 25 student software engineers to design and implement the control system for our Hyperloop prototype
- Collaborated with engineers across the society to ensure software integrated with the rest of the pod
- Created and ran onboarding workshops to teach new members C++, Git, and our workflows

Software Engineer Intern

June 2023 – Sept. 2023

Nutanix

Cambridge, UK

- Skills: C, Python, QEMU, KVM
- Worked in the datapath team to replace the library used for backing VM storage
- Developed knowledge of QEMU and KVM

Software Project Lead

Sept. 2021 – July 2023

HYPED — University of Edinburgh Hyperloop Team

Edinburgh, Scotland

- Skills: C++, embedded systems, project management
- Led a team of 3 student software engineers to write the code that controls the pod's motors
- Developed a CAN bus library to communicate with the motor controllers

TECHNICAL SKILLS

Languages: C++, Python, Rust, TypeScript, C, C#

Frameworks: React, Node.js, Playwright

Developer Tools: Git, Docker, AWS, GitHub, CMake, Neovim

Technologies: Linux, QEMU, KVM