

# ERIC MOYNIHAN

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## EDUCATION

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2018 – 2022

### University College Cork

BSc, Computer Science

Year 1: 1st Class Honours; Year 2: 1st Class Honours, Year 3: 1st Class Honours

2012 – 2018

### De La Salle College Macroom

Leaving Certificate

7 Higher Level Subjects. Results: 2xH2 2xH3 2xH4 1xH5

## EXPERIENCE

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MARCH 2021 – AUGUST 2021

### Google, Site Reliability Engineering Intern

- Part of the Network Cluster Site Reliability Engineering team.
- Worked on a dashboard templating system for visualizing alert trigger conditions, allowing on-callers to easily visualize the internal logic of an alert.
- Developed some core microservices for our Operation Support Service.
  - Contributed to the API design process, proposing solutions to problems in a concise manner.
  - Implemented both integration and unit tests, ensuring that all code is covered sufficiently.
  - Completed tasks in a timely manner, allowing the team to have an MVP before the deadline.

JUNE 2020 – SEPTEMBER 2020

### Google, STEP Intern

- Part of the B2 Internal Edge Network Site Reliability Engineering team
- Worked on an open source project called **gNxI** (<https://github.com/google/gnxi>), a set of services used to *provision network devices using an open vendor neutral specification*:
  - Stayed consistently ahead of schedule, allowing for *stretch goals* such as an Angular Web UI.
  - Increased test coverage in the repository by [over 15%](#).
  - Refactored a large amount of the codebase to be more customisable and readable.

JUNE 2019– PRESENT

### University College Cork, Staff IT Service Desk

- Help Staff Part Time with issues regarding their PCs and officially supported software
- Log cases using our Triage system and explain in detail issues that need to be expedited

SEPTEMBER 2019 – MAY 2020

### University College Cork, Lab Demonstrator

- Demonstrated for 3 modules: Introduction to Programming, Systems Organization 1 and Computer Systems.

## ACTIVITIES AND ACHIEVEMENTS

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2020 - PRESENT

### Systems Administrator, UCC Netsoc

- Work on our core [infrastructure as code](#) service which enables us to provide free hosting to all UCC students
- Created/contributed to products such as a [Discord Bot](#), a [website](#) and a [developer environment](#).

2014 - PRESENT

### CoderDojo Mentor, IBM Cork CoderDojo

- Mentored a full class for Advanced Web Development, teaching them backend and JavaScript frameworks.

## SOME OF MY SKILLS

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**Backend:** Go, Python, Node JS, Java, MySQL, NoSQL, Firebase, Networking, Docker (Swarm) | **Frontend:** TypeScript, JavaScript, React, Angular, React Native, HTML5, CSS3 | **Productivity:** Git, GitHub, Ansible, Linux, Figma

## SOME OF MY PROJECTS

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**Astra Tutor** — *Online tutoring platform with WebRTC video chat* / <https://github.com/cs3305-team-4/astratutor>

Astra Tutor was completed as part of a 4 person team during our Team Software Project module. Provides a full stack solution to online tutoring, including video chats with an interactive whiteboard, tutor discovery and a Stripe based payment solution. Written with a Go backend and React TypeScript frontend.

**Netsoc Cloud** — *Open Source Free Cloud Hosting for students* / <https://github.com/UCCNetsoc/cloud>

Netsoc Cloud is the REST API and control panel powering UCC Netsoc's services available to members of the society. It provides Container and VPS hosting built atop of Proxmox with routing powered by Traefik.

**Yup** — *Arch Linux User Repository helper* / <https://github.com/ericm/yup>

Arch Linux AUR Helper with ncurses functionality and better searching and sorting. Made in Go

**Auxii App** — *React Native App used to share location in real time*

I implemented an MVP for an app that allows users to connect and share location in the event of an emergency. Works on both iOS and Android.

**Newlogic** — *Circuit Simulator* / <https://github.com/ericm/newlogic>

A Circuit Builder / Logic Design Desktop Application (like mmlogic) made with Electron + React Typescript. It's currently compatible with Windows, Mac and Linux. Made with TypeScript/Electron.