

# Ethan Range

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## EDUCATION

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### Imperial College London

London, UK

*MEng Computing*

2020 - 2024

- First Year 83.3% Overall (First Class), Dean's List for top 10% of cohort
- Modules including Databases, Computer Architecture, Graphs and Algorithms and Concurrency
- 99% C Group Project Mark; 1st Prize 'ARM Best Overall Project'

### Loughborough Grammar School

Loughborough, UK

*Secondary School*

2013 - 2020

- 4 A\*s at A level in Mathematics, Further Mathematics, Physics and Computer Science
- 8 9s and 2 A\*s at GCSE; A in FSMQ (Additional Mathematics)

## EXPERIENCE

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### Imperial College London

October 2021 – Present

*Undergraduate Teaching Assistant*

London, UK

- Aided delivery of and provided support to students for the first year lab curriculum
- Provided one-to-one help sessions for students studying Haskell, Kotlin and Java

### Accrosoft

July 2019 – August 2019

*Software Engineering Intern*

Loughborough, UK

- Shadowed Development and QA teams through the software production process
- Gained experience with full-stack development, languages and platforms including JavaScript, CSS and Node.js
- Produced an independent project website with a Node.js backend and login functionality

## PROJECTS

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### C Summer Group Project | C

May 2021 – June 2021

- Worked as a group of 4 to create an ARM11 emulator and assembler, with a procedural maze generation extension
- Created full documentation, report and presentation video along with unit test suite
- Made extensive use of DevOps tools including Git, GDB, GNU Make, Valgrind and custom a testing framework
- Achieved final overall mark of 99% and awarded ARM prize for 'Best Overall Project'

### Decim | Svelte, Node.js, SQLite

March 2021

- Competed as a team of 3 in the 48 hour IC Hello World hackathon to create a Node.js web app
- Produced a carbon footprint estimator by analysing Monzo bank statements
- Worked on Monzo API interaction and transaction retrieval, as well as front end component design in Svelte

### Neuroevolution Self-Driving Vehicles | Python, Processing

September 2019 – March 2020

- Developed a neural network library from scratch in Python, featuring genetic algorithms for network selection
- Created 2D Physics based top down driving simulator with Processing
- Implemented self-learning onto driving simulator allowing for track completion by vehicles
- Produced full report on the design, implementation and testing of the program

## TECHNICAL SKILLS

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**Languages:** Preferred: Java, C, Python; Experience with: Haskell, Kotlin, JavaScript

**Frameworks / Technologies:** Node.js, HTML / CSS, SQL

**Developer Tools:** Comfortable with Git, Unix / Linux, Docker, Proxmox VE, JUnit, GDB, Valgrind

## INTERESTS

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**Languages:** Studying French and Russian alongside primary course

**Home lab / Self hosting:** Hosting virtualised infrastructure and containerised services