

Viswa Marepalli

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EDUCATION

Imperial College London

Masters of Engineering, Electronic and Information Engineering

- Incoming.

London, UK

Sept 2025 — Present

Dartford Grammar School

International Baccalaureate Diploma Programme

- Higher Level: Mathematics AA, Physics, Computer Science.
- Standard Level: Economics, English Literature, Japanese ab initio.
- **Predicted:** 41/45 points with 7,7,7 at Higher Level.

Dartford, UK

Sept 2023 — May 2025

WORK EXPERIENCE

Cisco Pathways

Cisco UK

July 2023 — July 2023

Bedfont, London

- Worked hands on with Cisco to gain an insight into the different roles available at Cisco as well as in the Computer Science industry.
- Explored key topics such as Ethics, Custom Experience (CX) and intermediate networking knowledge.
- Employed our skills in a Dragons Den presentation on the final day, ultimately leading to my team securing a win! (and some cool merchandise)

PROJECTS

Maintainer, Rogue (github.com/justanotherbyte/rogue)

Dec 2024 — Present

- Maintain open-source monolithic operating system kernel for the Raspberry Pi 4B in Rust.
- Aims to be a retro-gaming operating system, supporting basic games and basic game development with a custom scripting language (built with pest.rs).

Maintainer, imoog (github.com/justanotherbyte/imoog)

Nov 2023 — April 2024

- Maintain open-source database-based CDN node with 100+ downloads.
- Built support for MongoDB and PostgreSQL databases (and other drop-in replacements), with support to easily write custom drivers.

Maintainer, AniDuel (Discord Bot)

July 2021 — July 2023

- Developed a closed-source Discord Bot that let people simulate anime battles, similar to card games, **used by over 2000+ guilds**, powered by PostgreSQL and discord.py.
- Linked and developed multiple micro-services written in Rust, with the main Python bot, including an audio service and image service, using [axum](https://axum.rs) and the [tokio](https://tokio.rs) eco-system.
- Engineered a custom, unique battling system, using the new components API.

EXTRACURRICULAR ACTIVITIES

Competitive Programmer

Jan 2024 — Present

- Participated in the British Informatics Olympiad and achieved **Best in School**.
- Participated in the PERSE team challenge, achieving **Distinction** and **Best in School** for two years.

IRIS Big Data: ATLAS

October 2023 — Jan 2024

- Researched the Z^0 boson, writing a research poster titled: ***Finding the invariant mass of the Z^0 boson via decay product summation.***
- Presented my findings at a research conference in London.

SKILLS

- **Programming Languages:** Python, Rust, HTML/CSS, C/C++
- **Technologies:** Git, Tailwind CSS, Google Cloud Platform, Cloudflare Workers, Django, Flask, Starlette, Linux, NumPy, PyTorch, Scikit-Learn, Stripe