Viswa Marepalli

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EDUCATION

Imperial College London   London, UK
MEng, Electronic and Information Engineering   *Sept 2025 — Present*

Dartford Grammar School   Dartford, UK
International Baccalaureate   *Sept 2023 — May 2025*
- Achieved 40/45 points, with 7/7/7 at Higher Level.
- Robotics Society lead: piloted two teams to construct rovers using the Raspberry Pi 3B.

EXPERIENCE

Software Engineering Intern   Jul 2025 — Jul 2025
Autumn (YC S25)   *London, UK*
- Rewrote Python SDK to adhere to PEP 8 and other industry conventions. Introduced AsyncIO support and wrote a server handler mountable to any ASGI app; fully compatible with the JavaScript SDK.
- Wrote Autumn's new CLI tool, allowing users to onboard onto Autumn by creating/editing pricing plans all from their code-base and their command line using a typed TypeScript configuration.
- Built usage limits, allowing users to set limits on how much a product can be used, e.g: $0.05 per chatbot message **up to 1000 chat messages**. Implementation required adjustment of server routes, updates to React components and universally accepted DX.
- Collaborated with two founders and one other intern on initial ideas for scaling and CLI DX.
- Continuing maintenance and support and assisting with a migration of the Python SDK's core API client to Stainless.

PROJECTS

Maintainer, Rogue Firmware   Sept 2025 — Present
- Built a hobby firmware in Rust for the Raspberry Pi 4B's ARM Cortex A72 quad-core BCM2711 SoC.
- Implemented GPIO and UART operations using Memory-Mapped IO operations, taking advantage of Rust's safety features to prevent invalid states and race conditions.
- Wrote a linker script by adapting existing scripts written for projects written in C. This involved adjusting start addresses, referring to the peripherals datasheet.

Maintainer, autumn-py (github.com/useautumn/autumn-py)   Jun 2025 — Present
- Rewrote Autumn's (YC S25) Python SDK, equipping it with asynchronous support via aiohttp.
- Redesigned backend handler to be framework agnostic. Moved away from framework specific implementations to a universal ASGI implementation, allowing the server handler to be mounted to any ASGI app, powered by Starlette's ASGI toolkit.
- Documented usage both on Autumn's Mintlify and Sphinx docs.

Maintainer, imoog (github.com/justanotherbyte/imoog)   Nov 2021 — Apr 2022
- Built a content delivery node in Python using Starlette, storing files via pluggable database backends, with out-of-the-box support for PostgreSQL and MongoDB.
- Supports pluggable caching backends, with default support for in-memory and Redis caches.
- Rewrote in Rust using tokio's eco-system and axum to experiment with performance improvements.

IRIS Big Data: ATLAS   October 2023 — Jan 2024
- Researched the Z^0 boson and led a team of five, writing a research poster titled: ***Finding the invariant mass of the Z^0 boson via decay product summation***.
- Presented our findings at a research conference in London.

SKILLS

- **Programming Languages**: Python, Rust, TypeScript, C/C++, HTML/CSS
- **Technologies**: React, Tailwind CSS, Git, Ubuntu Linux, Docker, Django, FastAPI/Starlette