Evan Madurai

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Education

University of Leeds — BSc Computer Science September 2022 - June 2026
Grade: First Class (75%). Studied operating systems, compiler design, distributed systems, software engineering, and data analytics.

Experience

Software Engineering Industrial Placement, PwC June 2024 - September 2025

- Improved data integrity and reduced upload errors by implementing idempotency across resource upload services, enabling reliable restart and recovery.
- Completed the migration of core services to gRPC, significantly reducing backend communication overhead and increasing throughput.
- Developed an AI-powered end-to-end customer onboarding system (Python, TypeScript) and successfully integrated it with the client's pre-existing enterprise systems to ensure data continuity.

Junior Software Engineer, Mytos Bio July 2026 - Present

- Developed an automated pipeline for testing database migrations on production-grade data securely.
- Streamlined the commissioning process for an international fleet of IoT medical devices by automating infrastructure deployments.
- Acted as incident manager for multiple high-severity production incidents, coordinating engineers and stakeholders through resolution and leading post-mortems that drove corrective and preventive actions.

Head Avionics Engineer, Leeds University Rocketry Association October 2023 - July 2026

- Led a five-person multidisciplinary team to develop, test, and integrate custom rocket avionics and software systems, resulting in the successful delivery of all components for the Gryphon II rocket - the highest and fastest amateur rocket to launch from British soil.
- Designed, assembled and integrated a custom remote control and telemetry computer for the Gryphon III liquid bipropellant (IPA/N_2O) rocket, which ran the vehicle through a cold flow and three hot-fire attempts at Sheffield Propulsion Laboratory.

Projects

LEODIS — Go, WebAssembly, Rust Final-Year Dissertation

- Built a from-scratch document database co-located with a WebAssembly execution sandbox that runs user-written stored procedures, with SDKs for Go and Rust.
- Achieved 4.8× lower p50 read latency than a Gin + MongoDB stack at 1,000 concurrent users.
- Verified fault, resource and memory isolation with adversarial tests (panics, infinite loops, out-of-bounds pointers, deny-by-default filesystem and network access).

LeedsHack — Co-Founder

- Co-founded LeedsHack, the University of Leeds' first 24-hour student hackathon.
- Raised £10,000 through partnerships with local and global tech companies such as and IMDb, Snowflake, Hetzner, and The Data City.

Next Service Station — Go, Python, React, PostgreSQL, GIS, OpenAPI nextservicestation.co.uk

- Built a website that tells drivers which service station is next along the motorway they are driving on.

Skills

- Systems Programming (Go, C, C++)
- PCB design, Manufacture, and Integration (Kicad, SPI, I2C, UART, USB)
- Bare-Metal Embedded Programming (C, Rust)
- Cloud Hosting (Docker, GCP, Azure, AWS)
- Scripting and Automation Tooling (Python, Github Actions)
- IoT Device Management (Balena)