

Eu Ler LAM

Singapore

hello@ler.sh | github.com/lameuler | linkedin.com/in/lameuler | ler.sh

Available for full-time internships from Mar 2027 – Sep 2027

Education

BA Computer Science, Incoming Starting Oct 2027, expected 2030

University of Cambridge, Churchill College

Diploma with Honours in Computer Science Jan 2019 – Nov 2024

NUS High School of Math & Science | Majors in Math, Physics, Chemistry | GPA 4.9/5

- Excellence Award (Computer Science); DSO Star Award ×2 for A+ in CS2100 (Computer Organisation) and CS2106 (Introduction to Operating Systems) taken at the National University of Singapore

Projects

astro-pdf | ler.quest/astro-pdf | github.com/lameuler/astro-pdf Jul 2024 – Present

Typescript, Puppeteer, Vitest, GitHub Actions | 40+ GitHub stars

- Designed and published an open-source Astro integration that generates PDFs from site pages and external URLs using headless Chrome, with configurable concurrency, retries, and error handling
- Maintained with Vitest tests on GitHub Actions CI across multiple Node.js versions and operating systems, automated formatting and linting, and versioned releases and changelogs via Changesets
- Iterated through tracked issues and pull requests, implementing feature requests and fixes

Accessible Odd-One-Out Game | github.com/Dolne/EJSY_StellFHthon Mar 2026 – Aug 2026

C++ (ESP32/Arduino) | Winner of Singtel x LionsForge Inclusive Hackathon (Secondary/JC)

- Led the software development of an inclusive carnival game for children with cerebral palsy, with a custom LCD menu to configure game stimuli and input modes to each child's abilities
- Designed a non-blocking loop to coordinate 4 stepper motors, an MP3 player, LED strips, buttons, and an LCD screen, replacing blocking libraries and selectively suspending hardware updates to prevent timing conflicts
- Architected the ESP32 firmware using object-oriented C++, encapsulating game states, hardware devices, and configurable options into reusable classes with inheritance
- Developed and validated software remotely, using hardware simulation to test component interactions

Entangler | github.com/lameuler/entangler Mar 2024 – Apr 2024

SvelteKit, MySQL, Docker

- Independently designed and developed a full-stack platform for school media club to manage service requests, equipment loans and manpower planning, with a MySQL-backed API and a static SvelteKit frontend
- Implemented Microsoft OAuth authentication and containerised both services with Docker Compose

Experience

Weapon Systems Specialist, National Service Feb 2025 – Feb 2027

Republic of Singapore Navy

- Operated and maintained weapon systems, and carried out amphibious operations on a naval warship in accordance with strict operational and safety procedures
- Trained and led junior crew in high-turnover department to ensure continuity and upkeep of standards

Awards & Achievements

- **Gold Medal, 3rd Place Team** | International Olympiad in Artificial Intelligence (IOAI) 2024, Scientific Round
- **Finalist Team** | HacX! Hack for Public Safety 2023, co-organised by Microsoft

Skills

Languages: TypeScript, JavaScript, Python, Java, C++, SQL

Frameworks & Tools: SvelteKit, Astro, Node.js, Git, GitHub Actions, Docker, Vitest, Puppeteer

Others: Embedded systems, REST APIs, Concurrency