Callum J. Bourke

Immersive Software Engineering Student | Aspiring Software Developer

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PROFILE

First-year Immersive Software Engineering student with hands-on experience building, testing and deploying real projects in Java and modern web tooling, including CI/CD pipelines and containerised deployments on AWS. Detail-driven problem solver with a strong work ethic built over several years in fast-paced, customer-facing and technical roles, comfortable working independently, as part of a team or in a leadership position.

EDUCATION

BSc Immersive Software Engineering, University of Limerick Sept 2026 – Present

Currently in 1st year

Leaving Certificate, Rice College Westport Sept 2019 – June 2025

- **H1** Computer Science • **H2** Mathematics, Physics, English, Music • **H3** French

TECHNICAL PROJECTS

Space-Themed Blog — Astro, Docker, AWS, GitHub Actions github.com/KindaViking

- Built a space-themed blog in Astro with posts on planetary rovers and space technology.
- Deployed two versions side by side: a static site on AWS S3/CloudFront (provisioned with AWS CDK) and a server-rendered Docker container on AWS ECS, each with its own deploy workflow.
- Set up CI/CD with GitHub Actions, Playwright end-to-end tests and Dependabot, tracking work on a scrum board with a clean Git history.

SystemFetch — Java, Linux Collaborative

- Co-developed a Linux system information tool in Java that reads hardware and OS data directly from /proc and /sys, without third-party libraries.
- Displays live-updating system data as SVG graphs, including a per-CPU usage bar chart, on an HTML report.

Robocode Combat Bot — Java Competitive league

- Designed an autonomous tank bot that tracks enemy energy to detect incoming shots and dodges perpendicular to the line of fire, competing in a Robot-class league.

HashedBlock — Whopathon Hackathon hashed-block.whop.site

- Built a crypto education platform for beginners on Whop, combining a one-time course on how blockchain works with a subscription tier for ongoing Bitcoin tools.

TECHNICAL SKILLS

Languages & Web: Java, HTML, SVG, Astro

Cloud & DevOps: AWS (S3, CloudFront, ECS, CDK), Docker, GitHub Actions, CI/CD, Dependabot

Testing: Playwright (end-to-end)

Tools & Platforms: Git, GitHub, Linux, WSL, Doom Emacs, Agile / Scrum boards

WORK EXPERIENCE

Senior Staff Team Member (Barista Specialist) — Krem Gelateria Aug 2025 – Aug 2026

- Held a senior role on the team, specialising in barista work and maintaining a consistent, high standard of coffee and service.
- Supported and guided other staff members during busy shifts.

Customer Service & Bike Maintenance — Greenway Bicycle Hire Jun 2024 – Present

- Managed bookings and stock using the company's software while serving customers.
- Maintained and repaired the hire fleet with close attention to detail and methodical problem solving; trusted to run duties independently.

Front of House — Kaska's Deja Brew Apr 2024 – Jun 2024

- Served customers, took orders and maintained workplace hygiene in a busy café environment.

CERTIFICATIONS & AWARDS

- **SCA Barista Skills** — Coffee Skills Program, registered SCA Barista Trainee (Cert. no. 671072), Jan 2024
- **Edmund Rice Award** — Winner, 6th Year
- **Student of the Year** — Winner, 3rd Year; Nominee 1st, 2nd, Transition, 5th & 6th Year
- **Gaisce President's Award** — Bronze, May 2023
- **Neill O'Neill Photography Award** — Merit, May 2019