

## CV

### Calvin Lynch

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GitHub: <https://github.com/Calvin155>

Personal Website: <https://cv-calvin.vercel.app/>

Personal Profile: Motivated Software Developer with a strong foundation in backend development, DevOps practices, and cloud-native technologies. Proven ability to deliver impactful tools in production environments, including a cloud cost monitoring dashboard used internally at Progress Software. Experienced in building RESTful APIs, working with Kubernetes and Docker, and implementing observability stacks using Prometheus and Grafana. Seeking a full-time role where I can contribute technical value from day one and grow as a backend or DevOps engineer.

### Education:

#### **September 2021 to current (Currently in Fourth Year – Expected Graduate Year 2025):**

Technological University of the Shannon Midlands Midwest (TUS) – Moylish, Limerick.

Course: Software Development BSc (Hons – Level 8) in Computer Science

Current Award: QQI Level 7 – Ordinary Bachelor’s Degree - Hoping to achieve BSc (Hons – Level 8) Yearly GPA

- **Year 1 GPA:** Stage GPA: 78.50%
- **Year 2 GPA:** Stage GPA: 70.66%
- **Year 3 GPA + Internship:** Stage GPA: 77.50%
- **Year 4 GPA:** Stage GPA: 74.81% (Semester 1)

4<sup>th</sup> Year Modules (Semester 1) – Enterprise Application Development, Big Data Mining & Analysis (Elective), Software Management Techniques, Reactive Systems.

4<sup>th</sup> Year Modules (Semester 2 – Currently Ongoing) – Api Design & Development, Machine Learning & Predictive Analysis, Software Management Techniques 2, Software Quality Engineering, Penetration Testing (Elective).

#### **September 2020 to April 2021.**

Limerick College of Further Education, Mulgrave St, Limerick (LCFE)

Course: Software Development

Grade(s): Distinctions in all modules.

Award: QQL Level 5 in Software Development.

#### **September 2010 – June 2016.**

- St. Clements Redemptorist College, Laurel Hill Avenue, South Circular Rd,
- Award: Leaving Certificate.

### **Certificates, Awards & Achievements**

- QQI Level 7 – Ordinary Bachelor’s Degree in Software Development – Technological University of the Shannon Midlands Midwest (TUS) - (2024)
- Palo alto – Cloud Security Fundamentals: Apprentice
- Junior Penetration Tester – 2025 – TryHackMe Certificate of Completion
- Microsoft Azure: Describe Cloud Concepts & Describe Azure Architecture & Services (2025)
- 5-Year Service Award – Absolute Hotel Limerick (2023)
- QQI Level 5 – Software Development – LCFE (2021)
- Full clean driving license

## **Technical Skills**

**Languages:** Java, Python, JavaScript, C#, HTML/CSS, PHP

**Frameworks:** Spring Boot, React, FastAPI, Flask

**Cloud & DevOps:** AWS, Docker, Kubernetes (K3s), GitHub Actions, CI/CD, ArgoCD

**Monitoring & Observability:** Prometheus, Grafana, Jaeger

**Databases:** PostgreSQL, InfluxDB, Cassandra

**Tools:** Git, Linux (CLI, WSL, Ubuntu), Bash, Jira, Miro

**Methodologies:** Agile (Scrum/SAFe), SDLC, MVC, REST API Design

## **Personal Skills**

**Skills:** Excellent customer service, communication, and telephone handling; dependable, attentive & confident.

**Interests:** Sports (hurling, football), music (listening and playing) & IT.

## **College & Personal Projects:**

### **Final Year Project – Air Quality Monitoring using Raspberry Pi**

Developed a portable air quality system using PM2.5, CO<sub>2</sub>, temperature, and humidity sensors. Processed sensor data using Python and exposed metrics via a FastAPI backend. Visualized data in real-time using a React frontend and Swift mobile app. Stored time-series data in InfluxDB (AWS).

*Tools: Python, FastAPI, React, Swift, InfluxDB, Raspberry Pi, Docker, AWS*

### **DevOps Project – System Performance Monitoring with Prometheus**

Set up a performance monitoring stack using Node Exporter, Prometheus, and Grafana to monitor Raspberry Pi health and performance. Created custom Grafana dashboards and configured alert rules.

*Tools: Prometheus, Grafana, Node Exporter, Docker*

### **Farm Management System (Group Project – 3rd Year)**

Built a full-stack CRUD application to manage livestock, inventory, and scheduling for farmers.

*Tools: Java, Spring Boot, MySQL, Thymeleaf*

More at: <https://cv-calvin.vercel.app/projects>

## **Work /Work Experience**

### **Software Engineer Intern**

*Progress Software Corporation - January 2024 – August 2024 / 8 Months*

- Gained hands-on experience with DevOps practices, CI/CD pipelines, automation, and Agile methodology (SAFe) as part of the Platform Operations Team.
- Collaborated in team settings, participated in code reviews, and solved problems.
- Developed a cloud cost analysis dashboard using data from Azure (via CLI), Cassandra, and Prometheus, visualized in Grafana for internal employee use.
- Utilized MELT (Metrics, Events, Logs, Traces) with Prometheus for metric scraping and alerting.
- Deployed a Jaeger instance for dependency analysis.
- Worked with technologies including Azure, Azure cli, Python, Docker, Kubernetes (K3s), GitHub, GitHub Actions, FastAPI, Flask, Cassandra DB, InfluxDB, Grafana, and Argo CD.
- Presented project progress in sprint reviews and contributed to PI planning and retrospectives.

### **Senior Receptionist**

*Absolute Hotel, Limerick - 2019 – December 2024*

- Actively contributed to HOD (Head of Department) meetings, offering insights to improve operational workflows.
- Responding to guests in a friendly and efficient manner during check-in, checkout, over the phone & email.
- Switchboard.
- Responsible for onboarding and training new team members, mentoring junior staff and ensuring high service standards.
- Managed group and individual reservations across leisure, corporate, and event categories, maintaining booking accuracy and customer satisfaction.
- Carried out Duty Manager responsibilities including supervision of bar, restaurant, meetings, and events (C&B).
- Cross checking 3rd party commissions with 3<sup>rd</sup> party booking channels.

### **Night Duty Manager**

*Absolute Hotel, Limerick - 2018 – 2019*

*References available upon request.*