

CV

Calvin Lynch

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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)

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

4th 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)
- Junior Penetration Tester – 2025 – TryHackMe Certificate of Completion
- Certificate of Attendance – Work Experience – TUS (2023)
- Manual Handling – Absolute Hotel Limerick (2023)
- 5-Year Service Award – Absolute Hotel Limerick (2023)
- Fundamentals of Digital Marketing – Google Digital Garage (2021)
- QQI Level 5 – Software Development – LCFE (2021)
- Full clean driving license
- Multiple awards in music and sports

Technical Skills

- **Programming Languages:** Java, JavaScript, C#, HTML, CSS, PHP & Python.
- **Databases:** SQL, InfluxDB, CassandraDB & Postgres.
- **DevOps & Tools:** Docker, Kubernetes (K3s), DevOps methodology, CI/CD, Automation, GitHub, GitHub Actions, Bash, Prometheus & Grafana.
- **Cloud:** AWS
- **IDEs:** Visual Studio Code, VS Code, NetBeans & IntelliJ.
- **Frameworks:** Spring-Boot, React, Fast-API & Flask.
- **Other:** MS Office (Word, Excel, Access, PowerPoint), Email, Internet, Jira, Miro, Linux Cli, WSL, Linux Ubuntu, SDLC, MVC, Problem Solving, Agile, SAFe Algorithms, SSH, Rest-API Design & Development.

Personal Skills

- **Skills:** Excellent customer service, communication, and telephone handling; dependable, attentive & confident.
- **Interests:** Sports (hurling, football), music (listening and playing) & IT.

Projects:

3rd Year – Group Project – Farm Management System:

Description: Team project (4 members) focused on building a dairy farm management system. Developed using C#, WinForms, and Azure-hosted SQL database. This project emphasized teamwork, collaboration, and version control via GitHub. Followed the Agile methodology with regular client interactions and a final UAT. Applied the Singleton design pattern throughout the project. Demonstrated strong skills in group work, software design, and cloud integration. **Final Grade/Result: 75%.**

Final Year Project (FYP - College) – Air Quality Monitoring Using a Raspberry Pi:

Description: Developed a portable air quality monitoring system using a Raspberry Pi 5 with CO₂ and particulate matter sensors. A Python application running in a Docker container captured live sensor data and sent it to an InfluxDB instance hosted on AWS. A FastAPI-based REST server, also containerized and cloud-hosted, provided APIs to retrieve this data. A React web app and SwiftUI mobile app fetched and displayed updated readings every 15 seconds, with alerts for unsafe air quality levels. System performance was monitored using Node Exporter, Prometheus, and Grafana. GitHub used for project source code.

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 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

- Experienced user with Opera Hotel Management System & Micros
- HOD Meetings – Attended Head of Department Meetings
- Staff Training – Trained & assisted in the training of new staff members.
- Reservations Agent – Individual & Group – Both Leisure, Corporate and Group - Create, Update and Cancel
- Duty Manager Experience – Duty Manager Shifts – Bar, Restaurant, Meeting & Events/C&B

Night Duty Manager

Absolute Hotel, Limerick - 2018 – 2019

Receptionist (Part-Time)

Absolute Hotel, Limerick - September 2017 – 2018

References available upon request.