

CV

Calvin Lynch

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Education:

September 2021 to 2025:

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

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

Award: QQI Level 8 – Honours Bachelor’s - Degree – First Class Honours (GPA: 73.66 %).

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

4th Year Modules (Semester 2) – 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 8 – Honours Bachelor’s Degree in Software Development – Technological University of the Shannon Midlands Midwest (TUS) - (2025)
- ISTQB Certified Tester – Foundation Level - (2026)
- Junior Penetration Tester – TryHackMe Certificate of Completion - (2025)
- QQI Level 5 – Software Development – LCFE (2021)
- Manual Handling – Absolute Hotel Limerick (2023)
- 5 -Year Service Award – Absolute Hotel Limerick (2023)

Technical Skills:

- **Programming Languages:** Java, C#,Python, HTML, CSS, PHP.
- **Design:** Database Design, OOP, REST-API Design & Development.
- **Databases:** MySQL, InfluxDB, CassandraDB, Postgres.

Projects:

AI Incident Investigator

Developed a portable air quality monitoring system using a Raspberry Pi 5 to collect PM2.5, PM10, and CO₂ data from environmental sensors. Processed data locally with Python and exposed it via a FastAPI REST API, with storage in InfluxDB hosted on AWS. Built a React web app and Swift mobile app for real-time data visualisation, applying edge computing principles and monitoring system performance with Prometheus and Grafana.

Final Year Project (2025)

Developed a portable air quality monitoring system using a Raspberry Pi 5 to collect PM2.5, PM10, and CO₂ data from environmental sensors. Processed data locally with Python and exposed it via a FastAPI REST API, with data stored in InfluxDB hosted on AWS. Containerised backend services using Docker to ensure portability, consistent deployments, and simplified environment management. Built a React web app and Swift mobile app for real-time data visualisation, applying edge computing principles and implementing system monitoring with Prometheus and Grafana.

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

Work /Work Experience

Graduate Software Test Engineer

Kneat Solutions – July 2025 – Current

- Execute detailed test cases, identify and log bugs, and verify fixes with precision, ensuring high-quality software delivery.
- Utilize **Microsoft Azure DevOps** for task management, test case tracking, bug reporting, and version control via **ADO Repos/Git**.
- Build deep application knowledge to support comprehensive testing coverage across multiple modules.
- Contribute to **exploratory testing, pull request (PR) testing**, core regression events, and team activities to enhance product quality and collaboration.
- Collaborate closely with developers and QA teams to validate fixes and ensure alignment with requirements.
- Completed internal training certifications, including **Kneat End User Training**, and achieved **Power User Level 1** certification.
- Certified **ISTQB Foundation Level Tester**, demonstrating strong foundational testing expertise.

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 – 2024

Night Duty Manager

Absolute Hotel, Limerick - 2018 – 2019

References available upon request.