

Liam Walton

SOFTWARE ENGINEER

Results-driven software engineering professional with a robust foundation in both front-end and back-end development. Proficient in C#, C/C++, Python, Java and MySQL, with extensive hands-on experience in automation scripting, desktop application development, and web application optimisation. Demonstrated success in collaborating with cross-functional teams to deliver innovative, scalable software solutions while maintaining the highest standards of code quality. Dedicated to leveraging technical expertise to create impactful applications and advance a career in full-stack development.

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PROJECTS

- TeraTerm Fire Event Simulator: Developed a real-time fire event simulator for Gent fire panels, enhancing testing and response accuracy.
- PedalPulse.cc: Built a cycling analytics platform leveraging Strava API to track and optimise personal performance metrics.
- Restaurant Booking System: Developed a full-stack booking platform with cinema-style seat selection using Java, JavaFX, and MySQL, enabling real-time reservations and dynamic seat allocation for an intuitive user experience.

EXPERIENCE

● Altia Solutions

TEST DATA ANALYST January 2025 - Current

- Developed and executed test plans, test cases, and scripts to ensure the quality and functionality of investigation and intelligence software, including Altia HQ's modular features for case management and OSINT investigations.
- Partnered with developers to analyse and resolve defects in cloud-native applications, ensuring compliance with security standards like encryption and role-based access.
- Evaluated software requirements and logic to implement validation processes, ensuring robust performance for law enforcement workflows.

● Siemens Mobility

NETWORK ENGINEER February 2024 – January 2025

- Configured network devices to ensure seamless integration with software applications, demonstrating expertise in software-hardware interactions.
- Developed and executed traffic tests to evaluate system performance, collaborating closely with software development teams to identify and resolve issues, thereby enhancing software reliability.
- Communicated progress, results, and key metrics to senior leadership to support informed decision-making in software development projects.

● Honeywell

AUTOMATION SOFTWARE ENGINEER July 2022 – February 2024

- Developed and maintained automated scripts to improve efficiency and quality of software processes supporting robust software releases.
- Partnered with software developers to design and implement scalable frameworks, contributing to continuous integration and high-quality code delivery.
- Reviewed and enhanced technical documentation to improve software development workflows.

● Oak Software

TECHNICAL SUPPORT CONSULTANT October 2018 – August 2020

- Conducted quality assurance for web applications, resolving bugs and vulnerabilities to ensure reliable performance.
- Updated web applications to enhance functionality and improve user experience.
- Managed and optimized MySQL databases to support back-end infrastructure.

EDUCATION

● De Montfort University, Leicester

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING Graduated May 2022

SKILLS

Proficient in C#, Java, Python, and C++ programming languages

Strong understanding of data structures and algorithms

Proficient in debugging and troubleshooting complex software issues

Strong knowledge of database management with MySQL, PostgreSQL, and MongoDB

Proficient in version control systems, primarily Git and GitHub

Knowledge of software design patterns and SOLID principles

Experience with Agile and Scrum software development methodologies

Skilled in virtualization tools such as VMware or VirtualBox