

Liam Mayenco Vela - Software Developer

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ABOUT ME

I am a passionate software developer with a strong foundation in computing principles and a keen interest in exploring new technologies. Currently pursuing a degree in Computing with Machine Learning and Artificial Intelligence at Technological University Dublin. My experience with full-stack projects, coupled with hands-on internships, has sharpened my ability to adapt quickly to new technologies and contribute effectively to team-based projects.

WORK EXPERIENCE

Technical

AIB – Intern (Jan 2025 – Aug 2025)

- Developed and deployed end-to-end automation scripts in Python and Java to streamline monthly governance processes, including version control handling and file management.
- Independently designed, implemented, tested, and documented a critical automation that ensured version compatibility between Microsoft Edge and its WebDriver, improving dashboard reliability and reducing manual intervention.
- Improved exception handling and error messaging in existing scripts to enhance usability for less technical team members, facilitating quicker diagnosis and resolution of automation failures.
- Created unit and functional test scripts for multiple automations, contributing to better code quality and reducing the risk of failure in production environments.

Skills – Automation development (Python, Java), Error handling and diagnostic logging, Test-driven development and scripting validation, Documentation and technical writing, CI/CD and Jenkins integration, Cross-functional team communication, Version control (Git), Incident management (BMC Helix/Remedy), Independent project ownership and delivery, Process improvement and reliability engineering

Cloudari - Web Developer (May 2023 - Jan 2024)

- Developed dynamic, responsive web pages using HTML, CSS, JavaScript, PHP, jQuery, JSON, AJAX and SQL, alongside building pages with WordPress and Elementor to enhance user experience.
- Built a full-stack backend office system, enhancing internal workflows and boosting overall performance by optimizing backend operations.
- Collaborated with colleagues in my team and stakeholders to ensure alignment with client goals, translating business requirements into effective technical solutions.
- Applied version control best practices using Git to maintain code quality and ensure efficient collaboration across teams.
- Demonstrated strong problem-solving skills by identifying bottlenecks in backend architecture and implementing solutions to improve system efficiency.

Skills - Full-stack development (HTML, CSS, JavaScript, PHP, SQL), Backend system architecture and performance optimization, WordPress and Elementor for web development, Cross-functional team collaboration and project management, Version control (Git), Problem-solving and process improvement

Frensei (Startup) - Software Developer (Aug 2023 – Aug 2024)

- Developing and optimizing an interactive mobile application using Dart and Flutter Flow, focusing on scalability and responsive design to enhance user experience.
- Working on critical features that allow real-time communication between users.
- Collaborated with a small team of developers to ensure smooth integration of frontend and backend components, implementing APIs and enhancing database communication.
- Conducted user testing to gather feedback to continuously improve the app's performance and user interface, ensuring seamless functionality across devices.

Skills - Mobile application development (Dart, Flutter Flow), Backend optimization, API integration and database management, User testing and UI/UX optimization, Code quality standards and version control (Git)

Additional Non-Technical work experience (customer facing and hospitality roles) available upon request

EDUCATION

TUDublin (Ongoing)

BSc (Hons) Computing with AI and Machine Learning – 4th Year

Current GPA - 3.4

Core Modules:

Systems Analysis, Python and OOP, Database Technologies, Networking and Routing, Client and server side Web Development, Linux, Java, Data Analysis, Information Security, Project (e-learning coding platform), Data Structures and Algorithms (C++), Information Security, Cloud Services and Distributed computing, Software Quality and Assurance, Applied Machine Learning, DevOps

Final Year Project (Ongoing)

Volleyball AI Statistics Tracker

- Developing a computer vision based system to extract player and match statistics from recorded volleyball footage
- Building a custom machine learning model for action detection and analysis using publicly available datasets
- Exploring the option of creating custom annotation to produce another dataset of volleyball specific actions to further improve model accuracy
- Depending on feasibility and time, may fine tune model to include individual player tracking for more granular performance data
- Aiming to produce useful match statistics to aid the development of teams and clubs
- Project reflects a blend of technical challenge and passion for sports performance and analysis

Hard Skills

Programming Languages

- Python, PHP, Dart, Java, C++

Web Development

- HTML, CSS, JavaScript, jQuery, AJAX

Frameworks

- Flutter Flow, Django

Cloud Technologies

- AWS

Databases

- SQL, PL/SQL, MySQL

Version Control

- Git, GitHub

Operating Systems

- Linux

Soft Skills

- Quick and Motivated Learner
- Team player
- Leadership
- Thrive under pressure
- Highly Adaptable

Certificates

- Worldskills Ireland Finalist in AWS Cloud Computing 2023
- PHP course by Universidad de Nebrija
- NVIDIA Fundamentals of Deep Learning

Hobbies

- Volleyball – Ex Club secretary, team captain for University, player and coach for national league club.

REFERENCES

Antonio Balairon Cloudari CEO abalairon@cloudari.com	Brian Glanville People Leader AIB Brian.j.glanville@aib.ie	Nuwriya Abdallah Senior Dev AIB Nuwriya.x.abdallah@aib.ie
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