

Lucas Maciel

Software Developer

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Summary

Software Developer currently completing the final year of a Computer Engineering degree while maintaining a professional role in the industrial sector. Focused on building efficient full-stack solutions and bridging the gap between theory and practice by adapting to new technologies. Currently preparing for Microsoft Azure Data Scientist and AI Engineer certifications, with a strategic goal of pursuing a Master's in Artificial Intelligence to design innovative, data-driven software solutions.

Professional Experience

Jul 2024 - ongoing

Full-Stack Software Developer

FRICON · Vila do Conde, Porto, Portugal

- End-to-End Ownership:** Acting as the sole developer responsible for the entire software lifecycle, from requirement gathering and system architecture to development and deployment of internal digital solutions.
- Solution Design:** Collaborating directly with cross-functional teams to diagnose operational bottlenecks, translating complex business needs into technical specifications and actionable **Workflows/Flowcharts**.
- Full-Stack Development:** Building scalable web applications to digitize shop floor processes using **React**, **NestJS**, and **Python**, supported by **SQL Server** and **PostgreSQL** databases.
- Infrastructure & DevOps:** Designed and implemented an on-premise virtualization infrastructure using **Proxmox** and **Ubuntu Server**, managing the deployment pipeline to ensure reliable internal access to all web applications.

Software Developer

Fev 2023 - Sep 2023

JCanão · Viana do Castelo, Portugal

- Rapid Progression:** Transitioned from an internship to a full-time core developer role due to strong technical performance and the successful delivery of innovative features.
- Modernization Initiative:** Proactively introduced **React** and **Node.js** to the development stack, designing modern web architectures that improved scalability and user experience for new products.
- Enterprise Development:** Maintained and optimized established corporate solutions using **C#** and **ASP.NET**, focusing on performance tuning, security, and stability in production environments.
- Code Quality:** Championed sustainable development practices, ensuring strict adherence to architectural patterns and security standards across both legacy and modern codebases.

Education

B.Sc. in Computer Engineering

Sep 2023 - ongoing

Highlights

- Software Engineering & Architecture:** Software Engineering I & II, Systems Integration, Project Management, Algorithms & Data Structures.
- Data Science & AI:** Artificial Intelligence, Operational Research, Database Administration, Statistics, Probability.
- Systems & Security:** Network & System Security, Operating Systems, Mobile Computing, Computer Networks.
- Key Projects:** Completed 4 semester-long practical projects (Project I-IV) simulating real-world software delivery cycles.

Higher Professional Technical Course in Web & Multimedia Development

Sep 2021 - Sep 2023

Highlights

- Web Development:** Web Applications, Mobile Interactive Systems, Database Management, CMS Development.
- Multimedia & Design:** 3D Modeling, Digital Animation, Audiovisual Production, Web Design & UX/UI Principles.
- Professional Skills:** Project Management, Digital Marketing, Technical Documentation, Technical English.
- Capstone:** Completed a 6-month professional internship, which served as the foundation for the professional career at JCanão.

Technical Skills

- Languages:** TypeScript, JavaScript (ES6+), Python, C#, Java, SQL.
- Frontend:** React.js, Angular, Ionic.
- Backend:** NestJS, Node.js, ASP.NET Core, Restful APIs.
- Databases:** PostgreSQL, Microsoft SQL Server, MongoDB.
- DevOps & Infrastructure:** Docker, Git/GitHub, Proxmox, Linux (Ubuntu Server).
- Cloud & AI:** Microsoft Azure (Preparing for DP-100 & AI-102), AI Concepts.