

João Pedro Bugarin Correia

Software Engineer (Backend & Full-Stack)

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in LinkedIn

PROFESSIONAL SUMMARY

Full-stack software engineer with 3+ years of professional experience and a background in Electrical and Computer Engineering. Specialized in backend development, API design, and scalable web systems, with solid experience in automated testing, CI/CD pipelines, and Agile environments. Strong analytical foundation from systems engineering, with hands-on experience building and maintaining backend services for data-intensive web platforms and systems. Recognised for clear communication and effective collaboration across multidisciplinary teams, with consistent positive feedback from both internal stakeholders and clients.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, PHP, C/C++

Backend & APIs: Node.js, NestJS, RESTful APIs, GraphQL

Databases: MySQL, PostgreSQL

Frontend & UI: React, Sass, Handlebars, Figma (component-based architectures)

Tools & Practices: Linux (daily use), Git, CI/CD pipelines, Automated Testing (Jest), Postman, Agile/Scrum

PROFESSIONAL EXPERIENCE

Senior Backend Software Engineer

Apr 2022 – Present

VML (formerly Wunderman Thompson Commerce & Technology). Porto, Portugal

- Engineered a payment recovery solution resulting in approximately €200k+ per year in recovered revenue.
- Contributed to the decoupling of frontend and backend systems through API-driven architecture supporting a new React-based platform.
- Participated in the implementation of new search functionality as a core platform feature.
- Achieved and maintained over 90% automated test coverage, improving system reliability.

Full Stack Developer

Jul 2021 – Feb 2022

Kampanos. Porto, Portugal

- Developed multiple MVPs under tight deadlines using TypeScript, PHP (WordPress), and AWS EC2.
- Assisted in configuring and deploying cloud infrastructure using AWS services.

TECHNICAL PROJECTS

Real-Time Adaptive Signal Processing | C, STM32F7, MATLAB

- Implemented LMS and Normalized LMS adaptive filtering algorithms in C on ARM Cortex-M7 microcontroller for real-time system identification at 8kHz sampling rate
- Analyzed convergence behavior and algorithm stability using oscilloscope measurements and MATLAB visualization

Data Link Protocol Implementation | C, Linux, Network Programming

- Implemented a reliable serial communication protocol from scratch using state machines, stop-and-wait ARQ, error detection/correction, and retransmission logic in C

EDUCATION

Bachelor's in Electrical and Electronics Engineering

Faculdade de Engenharia da Universidade do Porto

- Strong foundation in systems engineering, computer architecture, digital systems, and networking.
- Extensive practice with data structures and algorithms, primarily using Python.
- Academic projects in Embedded Systems, RTOS fundamentals, and Networking (FTP).
- Physics grade: 17/20 (top 7% among more than 250 students).