

Wesley Dalpiva

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Summary of Qualification

Software Engineer with 5 years of experience designing and building production backend systems with Python, Flask, Docker, and Google Cloud Platform. **Delivered 5 applications** across healthcare, sports, smart cities, and enterprise domains, with end-to-end ownership from architecture and implementation to deployment and maintenance.

Experience

• **Software Engineer at QuatroIn (Brazil) | 09/2023 - Present**

Software Engineer: 08/2024 - Present

Led the end-to-end development of five backend services and multiple greenfield applications, taking ownership of architecture, database design, implementation, cloud deployment, and long-term maintenance while working directly with clients to gather requirements, define technical solutions, and deliver production-ready software.

- Built and owned a coaching platform end to end, replacing a spreadsheet-to-WhatsApp workflow that took approximately five hours to prepare and send weekly plans for 50 runners; implemented a Python/Flask and Firestore backend with a Next.js/TypeScript frontend.
- Cut training-plan authoring from approximately five minutes to 90 seconds per runner and automated weekly delivery in approximately 10 minutes, while providing per-recipient success and failure reporting within the messaging API's rate limits.
- Supported the client's growth of 49% within three months; the platform currently serves two coaches and approximately 70 athletes with 70+ weekly plans, 245 training sessions, 140 automated messages and approximately 22 daily uploads.
- Led up to three developers across separate healthcare products, making architecture decisions, reviewing code, planning delivery, unblocking the team and working directly with clients.
- Designed shared Python/Flask services and worked across Flutter applications for a hospital pilot supporting 12 beds and 10 healthcare professionals; integrated OCR-based medical-monitor data extraction to reduce manual transcription.
- Helped build an internal questionnaire and analytics platform from scratch, replacing Google Forms and serving approximately 1,500 users with more than 100,000 responses across 12 business modules; contributed React screens and technical decisions with clients.

Software Engineer Intern: 09/2023 - 08/2024

- Developed dashboards for distributed STM32 IoT device monitoring and improved embedded firmware to increase telemetry reliability in hostile environments.
- Collaborated on cloud deployments, production debugging, documentation, and client-facing technical discussions within an agile development team.

Tech Stack: Python, Flask, Firestore, Firebase Auth, Git/GitHub, Next.js, TypeScript, Docker, Firebase, Google Cloud Platform (GCP), Pytest, Flutter, NoSQL, Microservices, MySQL, Java, React, Javascript, C/C++.

• **Academic Research, Biomedical Rehabilitation Systems (Brazil) | 08/2021 - 12/2023**

Supported biomedical rehabilitation research through real-time signal acquisition, embedded firmware and hardware-software integration.

- Developed Python software for real-time acquisition and visualization of 12-channel EMG and encoder signals, storing experiment data in proprietary files and using MySQL to map data folders.
- Implemented C/C++ firmware that digitized and synchronized analog signals and transmitted them to a computer over USART, supporting biomedical rehabilitation research.
- Participated in PCB design, hardware validation and system testing throughout the research lifecycle.

Tech Stack: Python / C/C++ / USART / MySQL / Git/GitHub.

Education

- **Computer Engineering:** University of Western Santa Catarina. 2020 - 2024.
- **Languages:** Portuguese and English