Willian Verri Carneiro Magalhães

IT Coordination · AI-assisted software delivery · Shipping products · IT Management focus

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SUMMARY

Computer engineer with 15+ years in technology, from support and networking to leading a systems unit. In recent years I've made AI central to how software gets built, through TDD and SDD workflows and harnesses, at work and in my own products.

PROFESSIONAL EXPERIENCE

CAESB — Companhia de Saneamento Ambiental do Distrito Federal

IT Coordinator 2024-11 – Present

Industrial Maintenance Information Processing Unit

- Own the enterprise industrial maintenance system that tracks the company's maintenance work orders, staff and costs.
- Accountable for modernizing the industrial maintenance system from ASP Classic to .NET 10 + React while in production, with a lean team (myself + 1 contracted developer): I prioritize, decide between architecture options, own the risk and contribute hands-on.
- Manage and analyze data on completed work, staffing and maintenance costs, producing reports that support management decisions.
- Introduced AI-assisted development within the governance constraints of an enterprise Microsoft 365 environment.

Business Support Agent 2017-11 – 2024-11

Customer Service Office, Planaltina

- Specialized customer service and technical review of commercial work orders.
- On my own initiative, built two tools for the office: one automates scanning and filing work orders into the commercial system, the other supports reviewing and closing them.

Business Support Agent 2015-06 – 2017-11

Financial Resources & Monetary Adjustment Department

- Financial resource control, accountability reporting and monetary adjustment of amounts.

Instituto Federal de Brasília (IFB)

IT Technician 2013-10 – 2015-06

Federal Institute of Brasília

- Network and academic systems administration, specialized support and IT infrastructure, including security and backup solutions.

SELECTED CASE STUDIES & PROJECTS

Modernizing a critical system without stopping operations

Role: Coordinator and accountable owner: prioritization, final decisions between architecture options, risk management and part of the implementation.

Coexistence architecture sharing the SQL Server database with the legacy app, enabling delivery of new modules in .NET 10 + React 19 without disrupting daily operations, backed by OpenAPI-typed contracts, automated functional test suites and report parity validation before each release.

Stack: .NET 10, C#, React 19, TypeScript, SQL Server, ASP Classic

AI-assisted engineering: TDD and SDD harnesses

Role: Designed and use the workflows daily.

Structured workflows (spec ’ tests ’ implementation ’ verification gates) applied daily to enterprise legacy modernization and Fit Tracker, featuring a read-only MCP server for safe database inspection, automated verification skills (build, tests, legacy query parity) and PDF contract spreadsheet extraction pipelines.

Stack: Claude Code, MCP, TypeScript, Vitest, Playwright, PowerShell

Fit Tracker: multimodal AI in a shipped app

Role: Creator: product, development and release.

Live on Google Play and the web. Users pick the AI "thinking level" (Haiku, Sonnet or Opus), which ties model cost to what each user pays.

Stack: Next.js 16, React 19, TypeScript, Tailwind CSS, Prisma, Supabase, Claude API, Android TWA

EDUCATION

Postgraduate specialization, Software Engineering for Applied AI — In progress
UniPDS

Postgraduate specialization, Computer Networks — 2016-05
Centro Universitário IESB

B.Eng., Computer Engineering — 2012-06
Centro Universitário de Brasília (UniCEUB)

SKILLS

Management: Coordenação de TI · Gestão de sistemas e produtos · Análise de dados e indicadores · Scrum/Kanban

Applied AI: Claude Code · Claude API (Haiku/Sonnet/Opus) · MCP · Harness de TDD/SDD · Agentes

Development: C# / .NET · React · TypeScript · Node.js · Python · ASP Classic

Data: SQL Server · Supabase/Postgres · Prisma · Power BI (DAX, REST API)

Infrastructure: Vercel · Windows Server · Linux · Redes (Cisco) · Virtualização · PowerShell · Git/GitHub