

# FELIPE DIOGO

Lisbon – Portugal

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## Summary

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Full-Stack Developer and Automation Engineer with 4+ years of experience building end-to-end systems, from data pipelines and analysis using Python and Node.js to production web apps using Next.js and React. Passionate about building AI-integrated SaaS products, there's always something in progress. Strong Python and JS/TS background. Comfortable owning entire development cycles solo: requirements, architecture, deployment, and iteration. An engineering foundation gives me a practical edge when building systems that need to be both reliable and production-ready. Comfortable with cloud solutions. Always keeping up with the latest technologies to sharpen performance — self-driven and genuinely curious. I believe automation and AI are not just practical tools but necessary ones to improve the speed and quality of code overall. Passionate about integrating them across almost every area of my work: solid fundamentals, boosted by the automations and AI workflows I build myself.

## Technical Skills

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**Languages:** Python, TypeScript, JavaScript, Solidity, C#, SQL, Bash, Lua, VBA

**Frontend:** React, Next.js, Angular, Tailwind CSS, Bootstrap, HTML/CSS, PWA, React Hook Form, Zod

**Backend & APIs:** Node.js, Express.js, FastAPI, REST, WebSockets, Supabase Edge Functions, Auth, RLS, Hardhat, Foundry Framework, OpenZeppelin

**Data & Databases:** PostgreSQL, MongoDB, InfluxDB, Prisma ORM, Supabase, pandas, NumPy, data pipelines, ETL, Power BI, Grafana

**AI & Automation:** OpenAI API, Claude API, LLM integration, AI Agents, prompt engineering, Lovable, n8n, Make, Zapier, Power Automate, Node-RED, MQTT, webhook pipelines

**DevOps & Infrastructure:** Docker, containerization, GitHub Actions (CI/CD), AWS, Vercel, Nginx, VPS/Linux, Raspberry Pi

**Practices:** Git, Agile (Scrum/Kanban), UI/UX principles, system architecture, technical documentation

## Experience

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### Personal Projects

2024 – Present

*Full-Stack Developer & Automation Engineer*

*Lisbon, Portugal*

- Built a social media automation pipeline using n8n and Make that generates posts from predefined topics, routes approval via Telegram, and auto-publishes to LinkedIn on confirmation.
- Developed a Python data pipeline for automated ingestion, transformation, and reporting, pulling from REST APIs, processing with pandas, and persisting to PostgreSQL on a schedule.
- Architected Julius, an AI-powered personal finance PWA (Next.js 15, Supabase, OpenAI API) where an AI agent extracts, categorizes, and persists financial entries from natural language input.

### Founder & Lead IT Automation Engineer

Jun 2025 – Present

Movewertech Technologies (Startup)Lisbon, Portugal

*4pt*

- Architected and deployed a production data monitoring platform using MQTT, Node-RED, InfluxDB, and Grafana, with an AI layer that generates actionable insights from raw sensor streams via REST APIs and webhooks.
- Built a Python REST API for data ingestion and processing; containerized the full infrastructure with Docker, deployed on a Linux VPS with CI/CD via GitHub Actions, and served the production frontend on Vercel.
- Designed end-to-end automation workflows connecting edge devices (Raspberry Pi) to cloud dashboards, covering ingestion, processing, real-time alerting, and AI-driven reporting.
- Built and maintained technical documentation including architecture diagrams, process flows, and user guides for all deployed automations.
- Sole technical owner across the full development lifecycle: requirements → architecture → deployment → iteration.

### Automation Executive Manager / Engineering Team Lead

Jun 2024 – Jun 2025

*Psyche AeroSpace (Startup)*

*São Paulo, Brazil*

- Structured the automation division from scratch and delivered intelligent control and workflow systems, contributing directly to new fundraising rounds.
- Developed internal automation workflows using Python, Node.js, and low-code tools to streamline operations and improve team efficiency.
- Managed a cross-functional team of 5 engineers using Scrum/Kanban on JIRA, coordinating multi-project delivery on time and within budget.

- Translated complex operational requirements into technical user stories, functional workflows, and automation logic – bridging business stakeholders and engineering execution.

## Automation Engineer

*Controvale (Automation Company)*

**Jun 2018 – Jun 2024**

*São Paulo, Brazil*

- Developed and deployed industrial automation systems with IoT, SCADA, and data-flow integrations – building deep expertise in end-to-end process automation and system integration.
- Executed full project cycles: system design, programming (Python, structured text), testing, troubleshooting, and client-facing technical documentation and handover.
- Built commercial automation partnerships with 35+ companies (Siemens, Bosch, Rockwell), developing strong requirements-gathering and technical communication skills.

## Projects

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**LinkedIn Post Automation** | *n8n, Make, JavaScript, Process Automation, AI Integration, AI Agent*

**Feb. 2026**

- Social media automation pipeline using n8n and Make, generates posts based on predefined topics, routes approval requests to the user via Telegram, and publishes to LinkedIn upon confirmation. [Click here to check it](#)

**Julius – AI Personal Finance SaaS** | *Next.js 15, TypeScript, Supabase, OpenAI API, PWA*

**Jan. 2026**

- Mobile-first PWA where users input expenses in natural language via an AI agent (OpenAI API); the agent extracts vendor, amount, category and date, then auto-logs entries to Supabase (PostgreSQL + Edge Functions). Includes per-user accounts, spending dashboard with interactive charts filtered by category/period, and app settings. Best experience in Smartphones (currently only in Portuguese). [Click here to test it](#)

**AI Data Platform** | *Python, Node-RED, MQTT, InfluxDB, Docker, REST API, AI Integration*

**Dec. 2025**

- Production IoT monitoring platform: edge node (Raspberry Pi) ingests field signals via MQTT → InfluxDB time-series → AI-generated natural-language insights via custom REST API. Containerized with Docker, self-hosted on VPS. [Click here to check it](#)

**FIFA World Cup Simulator** | *JavaScript, HTML5, CSS3*

**Sep. 2025**

- Interactive browser app with dynamic bracket rendering, match simulation logic and responsive UI using vanilla JavaScript, HTML5 and CSS3. [Click here to check it](#)

## Education

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**Federal Institute of São Paulo**

*Bachelor of Control and Automation Engineering*

**Jan. 2019 – Dec. 2023**

*São José dos Campos, Brazil*

**Full-Stack Development**

*freeCodeCamp · One Bit Code · Self-directed study*

**2022 – Present**

*800+ hours*

## Languages

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**Portuguese:** Native    **English:** C1