

# BRUCE PEDRO GOMES

*Senior Full-Stack Engineer · Backend-Focused*

Cascavel, Paraná, Brazil | +55 44 99173-8164 | [brucegomestech@gmail.com](mailto:brucegomestech@gmail.com)

[linkedin.com/in/brucepedrogomes](https://linkedin.com/in/brucepedrogomes) | [github.com/brucePedroGomes](https://github.com/brucePedroGomes)

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## PROFESSIONAL SUMMARY

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Software Engineer / Senior Full-Stack Developer with over 10 years of experience architecting, building, and scaling complex, robust, and highly available systems. Specialized in Node.js, TypeScript, Python, and React, with strong expertise in Serverless, Microservices, and Event-Driven architectures on AWS. Extensive background with relational (PostgreSQL, MySQL) and NoSQL (MongoDB, Redis) databases, CI/CD, Infrastructure as Code (IaC), observability, and production support - working end-to-end from architecture to continuous delivery. Experience in Agile teams (Scrum/Kanban), code review, technical mentoring, and architectural decision-making. As an added strength, I also design and ship autonomous AI agents (RAG/MCP) that augment the engineering workflow — automating requirements analysis and code review against the team's rules.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, Solidity, SQL, HTML, CSS

**AI & Agents:** I build custom AI agents (Agentic AI) to assist with virtually any activity, combining LLMs with tailored skills and specialized sub-agents per stage, tool orchestration, and automation to deliver real, end-to-end results. Already applied in production, automating story analysis and code review. Strong command of RAG architectures, MCP integration, and prompt engineering, adaptable to any AI tool on the market, with Claude Code as the preferred one.

**Backend:** Node.js, NestJS, Express, REST APIs, GraphQL, Apollo Federation, Microservices, Event-Driven

**Frontend:** React.js, Next.js, Electron, Micro-Frontends, Styled Components, Chakra UI, Storybook

**Databases:** PostgreSQL, MySQL, Aurora, MongoDB, Redis, Prisma ORM, SQL, NoSQL

**Cloud / AWS:** Lambda, API Gateway, S3, RDS, SNS, SQS, EC2, IAM, CloudWatch, CloudFormation, Aurora, Azure

**DevOps / IaC:** Docker, Kubernetes, Serverless Framework, Infrastructure as Code, CI/CD, GitHub Actions, Jenkins, Vercel, Linux

**Integrations:** OAuth 2.0, JWT, Webhooks, Salesforce, Web3, Google Earth, Dremio

**Testing / QA:** Jest, Cypress, Unit, Integration and E2E Testing, TDD, Code Review

**Architecture:** Microservices, Serverless, Event-Driven, Clean Architecture, SOLID, DDD, High Availability, Scalability

**Methodologies:** Agile, Scrum, Kanban, Git, GitHub, GitLab, JIRA, Pair Programming, Mentoring

## PROFESSIONAL EXPERIENCE

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## Senior Backend Developer

Mar 2023 - Present

### Levva

Campinas, SP, Brazil

Responsible for the full lifecycle of serverless, mission-critical systems on AWS, from development to production.

- Architecture and 100% serverless infrastructure (API Gateway, Lambda, SNS, S3, RDS/Aurora, CloudWatch) with IaC via CloudFormation.
- Back-end development for an invoice management platform and an agricultural plot API with access control via Salesforce.
- Data and analytics pipelines in Python, NDVI satellite monitoring integrated with Google Earth, and large-scale PDF report generation.
- Security with private subnets, VPN via EC2, least-privilege IAM, and backup/DR policies.
- Full DevOps: CI/CD, versioned deployments, automated tests, and incident recovery.
- Built and adopted AI agents in production within the engineering workflow: they automate user story/requirements analysis and Pull Request reviews following the team's coding rules, reducing review time and rework.
- Integrated the agents across the entire development environment via CLI, with specialized sub-agents for each stage of the flow: story analysis (checking acceptance criteria and missing details), code review, and quality standardization, applying RAG and MCP architectures.

**Stack:** Node.js, React.js, TypeScript, Python, PostgreSQL, MongoDB, REST, Serverless, AWS, Azure, Google Earth, Salesforce, Dremio, AI Agents / LLMs (RAG, MCP, Claude Code).

## Senior Full-Stack Engineer

Mar 2022 - Mar 2023

### SnackClub

Florida, United States

Development and maintenance of Web3 applications, combining blockchain technology with modern web stacks.

- Built and scaled Discord bots for community automation: user management, on-chain data tracking, role syncing, and automated flows.
- Monitoring platforms for blockchain games with real-time dashboards, NFT valuations, and ecosystem economic metrics.
- Led the development of a Discord-integrated Tournament Platform with automatic team creation by player profile and match-balancing algorithms.
- Integration of game data and blockchain events via GraphQL and REST APIs.
- CI/CD with GitHub Actions and deployments via Vercel, ensuring agility and delivery stability.

**Stack:** React.js, Next.js, Node.js, NestJS, TypeScript, PostgreSQL, Solidity, GraphQL, REST, GitHub Actions, Vercel.

## Frontend Developer

Jun 2021 - Mar 2022

### Quiq

Porto Alegre, RS, Brazil

Delivery Management Platform centralizing orders from multiple apps (iFood, Uber Eats, Rappi, Zé Delivery) for major brands such as Burger King.

- Micro-frontends for greater scalability, modularity, and independent deployments across teams.
- Desktop application built with Electron to manage delivery operations from a single interface.
- Reusable UI components with React, TypeScript, Styled Components, and Storybook.
- CI/CD with Jenkins, ensuring stable deployments and high reliability in production.

**Stack:** React.js, TypeScript, Styled Components, Storybook, Electron, Axios, REST, Jenkins.

## Full-Stack Developer

Jul 2020 - Jun 2021

### LOUD

São Paulo, Brazil

Front-end of an influencer management platform, focused on an intuitive and responsive user experience.

- Magic Link authentication to simplify OAuth authorization and secure connection with social networks.
- Interactive dashboards with real-time data: engagement, followers, views, and peak hours.
- Calendar and scheduling features for managing campaigns, deadlines, and content deliveries.
- Integration with a GraphQL API via Apollo Federation, with query optimization for performance and reliability.
- End-to-end testing with Cypress.io and automated CI/CD with GitHub Actions and Vercel.

**Stack:** React.js, TypeScript, Chakra UI, Apollo Client, GraphQL, Cypress.io, GitHub Actions, Vercel.

## Backend Developer

Jan 2019 - Jul 2020

### LOUD

São Paulo, Brazil

Large-scale influencer management platform based on a microservices architecture.

- Robust integrations with social network APIs via OAuth 2.0 (3-legged) for secure, large-volume data collection (followers, engagement, views, peak hours).
- Architecture and implementation of a GraphQL API with Apollo Federation for efficient communication between microservices.
- Automated CI/CD with GitHub Actions and deployments managed on Kubernetes, ensuring scalability and high availability.
- Focus on high-performance and resilient architectures for real-time processing of large data volumes.

**Stack:** Node.js, TypeScript, Docker, PostgreSQL, Prisma, GraphQL, Apollo Federation, Kubernetes, GitHub Actions.

## Freelance Software Engineer

2016 - 2019

### Self-employed

São Paulo, Brazil

Development of a Time Tracking and Attendance Management System, working on both back-end and front-end.

- REST APIs with Node.js and Express, and front-end interfaces in HTML and jQuery.
- Authentication flows, CRUD operations, and data persistence with MongoDB.
- Debugging, feature development, and optimizations following best coding practices.

**Stack:** Node.js, Express, HTML, jQuery, MongoDB.

## Hardware Technician

2012 - 2016

### Self-employed

Guarujá, SP, Brazil

Technical support, maintenance, and equipment repair for individual clients and medium-to-large companies, such as schools and offices.

- Hardware maintenance and repair: capacitor replacement, diagnostics, and component-level repair.
- Software services: operating system installation, formatting, network configuration, and system optimization.
- Network infrastructure: routers, switches, structured cabling, and Wi-Fi deployment.
- Installation and maintenance of CCTV systems for secure and reliable monitoring.

**Stack:** Windows, Linux, TCP/IP Networks, CCTV, PC Hardware.

## EDUCATION

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### Systems Analysis and Development

UNIPAR - Universidade Paranaense

Feb/2026 - 2028 (in progress)

### Associate Degree in Information Security

UNIP - Universidade Paulista

2021 - 2023

## LANGUAGES

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**Portuguese:** Native

**English:** Professional Working Proficiency (reading, writing, and technical conversation)

## CERTIFICATIONS

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Hardware · Linux · .NET