

BRUCE PEDRO GOMES

Senior Full-Stack Engineer · Backend-Focused

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PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years building and scaling complex, high-availability systems. I work end-to-end, from architecture to production. My core stack is Node.js, TypeScript, Python, and React, with strong experience in Serverless, Microservices, and Event-Driven architectures on AWS. I also work daily with SQL and NoSQL databases (PostgreSQL, MySQL, MongoDB, Redis), CI/CD, Infrastructure as Code, observability, and production support. I work well in Agile teams and handle code review, mentoring, and architecture decisions. On top of that, I build custom AI agents (RAG, MCP) to automate real engineering work.

TECHNICAL SKILLS

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

AI & Agents: I build custom AI agents for almost any task. I combine LLMs with custom skills, specialized sub-agents per step, tool orchestration, and automation to get real, end-to-end results. I also build my own MCP servers and use RAG to ground agents in the right context. Already used in production. Strong in RAG, MCP, and prompt engineering. I adapt to any AI tool.

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

Senior Backend Developer

Levva

Mar 2023 - Present

Campinas, SP, Brazil

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

- **Cut infrastructure costs by 80%** by leading the move of all APIs and the database to serverless (Lambda, API Gateway, Aurora Serverless).
- Built a 100% serverless architecture (API Gateway, Lambda, SNS, S3, RDS/Aurora, CloudWatch) with IaC via CloudFormation.

- Built back-ends for an invoice management platform and a farm-plot API, with access control via Salesforce.
- Built data and analytics pipelines in Python and NDVI satellite monitoring with Google Earth.
- Generated heavy PDF reports (visual assessments with high-resolution images) in the background with events (SNS/SQS + Lambda) — no timeouts, no blocking the API.
- Handled security with private subnets, VPN via EC2, least-privilege IAM, and backup/DR policies.
- Owned full DevOps: CI/CD, versioned deploys, automated tests, and incident recovery.
- Built and run my own custom AI agents in production — agents, skills, and MCP servers for many parts of the dev flow, with RAG pipelines tuned to the team's rules.
- **Cut code review time by 50%** with agents that review Pull Requests and analyze user stories against the team's coding standards.
- Integrated the agents into the full dev environment via CLI, with specialized sub-agents for each step, using RAG and MCP.

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

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 a **40,000-member community**: user management, on-chain data tracking, role syncing, and automated flows.
- Built monitoring platforms for blockchain games with real-time dashboards, NFT valuations, and economic metrics.
- Led a Discord-integrated Tournament Platform with automatic team creation by player profile and match-balancing algorithms.
- Integrated game data and blockchain events via GraphQL and REST APIs.
- Set up CI/CD with GitHub Actions and deploys via Vercel for fast, stable releases.

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

Frontend development of a delivery management platform.

- Micro-frontends for scalability and independent deployments across teams.
- Electron desktop application and reusable UI components with React, TypeScript, Styled Components, and Storybook.
- CI/CD with Jenkins, ensuring stable deployments 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 serving real-time data from our database: 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.

- Built solid integrations with social network APIs via OAuth 2.0 (3-legged) for secure, large-volume data collection (followers, engagement, views, peak hours).
- Designed and built a GraphQL API with Apollo Federation for efficient communication between microservices.
- Automated CI/CD with GitHub Actions and deploys on Kubernetes for scale and high availability.
- Built scheduled jobs (crons) that pulled data from all the social networks, processing **millions of records per day**, with a focus on high-performance, resilient architectures.

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

Systems Analysis and Development

UNIPAR - Universidade Paranaense

Feb/2026 - 2028 (in progress)

Associate Degree in Information Security

UNIP - Universidade Paulista

2021 - 2023

LANGUAGES

Portuguese: Native

English: Professional Working Proficiency