

Brayan Andrés Gutiérrez Pupo

Full-Stack Software Engineer | Node.js, NestJS, TypeScript, React, AWS, AI Agents

Barranquilla, Colombia (UTC-5) | Remote | +57 300 135 5051 | brag.866@gmail.com

LinkedIn: linkedin.com/in/brayan-gutierrez-pupo | GitHub: github.com/BrayanGuti | Portfolio: portfolio-sage-psi-77.vercel.app

Available as contractor or via EOR | No visa sponsorship required

SUMMARY

Systems Engineer and Full-Stack Developer with 3+ years of experience building scalable web applications with JavaScript, TypeScript, Node.js, NestJS, React, Next.js, PostgreSQL, and AWS. Experienced in event-driven microservices, asynchronous processing with queues (BullMQ, AWS SQS), Redis caching, RESTful APIs with Hexagonal Architecture, payment gateways, and real-time features. Builds production LLM agents with the OpenAI API (tool calling) and works in AI-first workflows with agentic coding tools and Claude to ship faster without sacrificing code quality. Available to work U.S. business hours in any U.S. time zone (ET to PT).

EXPERIENCE

Full-Stack Developer | VORTA S.A.S.

Jun 2025 – Present | Barranquilla, Colombia (Hybrid)

- Built an agentic WhatsApp bot on the OpenAI API that uses tool calling to read and update the PostgreSQL database securely through a validated tool layer, with a token optimization system to cut LLM cost and latency.
- Delivered features in an AI-first workflow, using agentic coding tools to plan, implement, refactor, and test code across the stack.
- Implemented an event-driven communication layer across 3 microservices.
- Reduced latency by 35% on average with Redis caching and improved API response times by up to 20% by optimizing PostgreSQL queries.
- Built a background job processing system with BullMQ and designed distributed messaging with AWS SQS queues.
- Integrated third-party services via webhooks; used AWS S3 for document storage and AWS Lambda for variable workloads.
- Designed RESTful APIs with Hexagonal Architecture (Swagger, Postman) and built React UIs in Scrum teams using Jira and Git.

Full-Stack Developer | RobotiKids S.A.S.

August 2023 – May 2025 | Barranquilla, Colombia (On-site)

- Cut API polling requests by 87% by implementing WebSockets with NestJS, powering a real-time sales admin dashboard.
- Implemented a Stripe payment gateway for secure online payments, averaging 13 transactions per day.
- Built event-driven inventory and payment systems for a catalog of 90+ products.
- Implemented passwordless authentication (OTP) and real-time mobile push notifications with AWS SNS.
- Adopted an AI-first development workflow with Claude Pro for code generation, debugging, and technical design.
- Built NestJS services and APIs, optimized database schemas, and maintained responsive React/Next.js UIs.

SKILLS

Languages: JavaScript, TypeScript, SQL. | **Backend:** Node.js, NestJS, Express, RESTful APIs, WebSockets, BullMQ, webhooks, microservices, event-driven architecture, Hexagonal Architecture.

Frontend: React, Next.js, responsive design, HTML, CSS.

AI & LLMs: OpenAI API, tool calling, AI agents, prompt engineering, token optimization. | **AI coding tools:** Claude (Pro), agentic coding, AI-first workflows.

Databases & caching: PostgreSQL, Redis. | **Payments & integrations:** Stripe, WhatsApp, third-party APIs via webhooks.

Cloud & DevOps: AWS (SQS, SNS, S3, Lambda), Docker, Azure (self-taught).

Tools & practices: Git, Jira, Swagger, Postman, Vite, Vitest, Scrum.

SELECTED PROJECTS

ChessMaster | React, TypeScript, Vite, Vitest | chess-master-phi.vercel.app | github.com/BrayanGuti/ChessMaster

- Built a complete chess game and published it on npm as an open-source React component (@brayanguti/react-chessmaster).
- Implemented full chess rules (Vitest-tested), a 5-level AI opponent in a Web Worker, drag-and-drop, undo, and saved games.

EDUCATION & LANGUAGES

B.S. in Systems Engineering

Universidad del Norte (Uninorte), Barranquilla, Colombia | 2021 – 2025

Professional development: Udemy, freeCodeCamp, midudev (Node.js, NestJS, React); self-taught Docker, AWS, Azure.

Languages: Spanish (native) | English B2 (CEFR), professional working proficiency.