



BRAYAN CASTRO

FULL STACK DEVELOPER • IOT ENGINEER • CLOUD ARCHITECT

NODE.JS | REACT | PYTHON | AWS | IOT | AI AUTOMATION

Full Stack Engineer with deep experience integrating software, IoT, AI, and hardware into complete end-to-end solutions. I design and build SaaS platforms, microservices, dashboards, chatbots, and industrial automation systems. I handle projects from prototype to production, optimizing cloud infrastructure on AWS and connecting real-world devices to scalable applications. Fast learner, problem solver, and passionate about creating technology that drives real impact.



CONTACT

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LANGUAGES

Spanish Native

English Upper-intermediate
(technical communication)



HARD SKILLS

- Backend:** Node.js, Express, Python, REST APIs, WebSockets, Go
- Frontend:** React, Vite, JavaScript
- Cloud:** AWS (EC2, RDS, S3, CloudFront, IoT Core, Route 53, ACM)
- Databases:** MySQL/MariaDB, DynamoDB
- DevOps:** Linux, Nginx/Apache, SSL, PM2, Docker, Kubernetes (basic deployments)
- IoT / Hardware:** PCB design, ESP32, Arduino, Raspberry Pi, MQTT, Modbus, 4-20 mA, industrial sensors
- AI:** OpenAI integrations, chatbots, intelligent classification, TTS/Audio AI



SOFT SKILLS

- Technical leadership • Systems thinking
- Practical problem solving
- Clear communication • Fast learning
- Innovation • Autonomy • High-pressure performance



EDUCATION

Bachelor's Degree in Mechatronics Engineering ITESM CSN (2008-2013)

- Graduated with honors for the highest GPA in the class.
- Overall GPA: 97.2.

Technical Degree in Computer Science (2005-2008) CETIS 108

- Overall GPA: 100.0.
- Winner of two international project competitions.



EXPERIENCE

ChatbotYa - Founder & Lead Developer (2025 - Present)

Modular automation platform with AI + WhatsApp + Web for reservations, inventory, tickets, POS, and business workflows.

- Backend with Node.js/Express; frontend with React/Vite.
- Advanced OpenAI integration for conversational flows and task automation.
- Multi-tenant cloud architecture on AWS (EC2, RDS, S3, CloudFront, Route 53).
- IoT hardware integrations when required.

RoboCall - Software & Hardware Developer (2024 - Present)

Automated dialing system powered by AI and custom-built hardware.

- AI-generated voice messages; campaign management dashboard in React.
- Backend in Node.js + Python microservices for audio processing.
- Hardware designed from scratch: GSM modem + bidirectional audio circuit.
- Detects voicemail, answered calls, and generates automated reports.
- Upcoming phase: AI conversational agent for live phone calls.

TuContaOnline - Full Stack Engineer / Cloud Architect (2024 - Present)

Accounting automation platform for processing SAT XML files.

- Classification of income, expenses, payroll, deductions, and assets.
- Automatic IVA/ISR calculations; dashboards for accountants and clients.
- WhatsApp chatbot with AI for reminders, confirmations, and document flow.
- Node.js, Python, React, MySQL; deployed on AWS (EC2, RDS, S3, CloudFront).

Monitor IoT - Industrial Monitoring Platform (2022 - Present)

Real-time dashboards for industrial sensors and automation.

- Telemetry: temperature, humidity, current, voltage, actuators.
- Backend Node.js + MQTT + AWS IoT Core.
- Dashboards built with React.
- Automatic WhatsApp alerts.
- Integrated with Raspberry Pi and industrial sensors.