

Jonathan Gonzalez

Senior Software Engineer — Backend, Real-Time Systems & Conversational AI
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Summary

Senior Software Engineer with 7+ years of experience designing and operating production backend systems, APIs, distributed services, and data-intensive applications. Strong background in Python, JavaScript/TypeScript, Node.js, WebSockets, Kafka, Redis, MongoDB, Linux, and cloud infrastructure. Hands-on experience building real-time voice and conversational AI systems using VoIP, speech processing, RAG, and LLM integrations, with end-to-end ownership from architecture through deployment and production troubleshooting.

Experience

Principal Software Engineer (Co-Founder)

Atom Build

California, United States

January 2025 – July 2026

- Architected and developed a production SaaS platform for project management, operational analytics, and workflow automation.
- Designed backend services and REST APIs using Python, FastAPI, PostgreSQL, Redis, Docker, and Linux, including JWT authentication and OAuth integrations.
- Implemented Redis caching and built ingestion pipelines for MPP, XER, and XML data, improving application responsiveness and supporting complex integration workflows.
- Owned backend architecture, production infrastructure, CI/CD, deployments, troubleshooting, and technical decisions while collaborating with frontend engineers and business stakeholders.

Senior Software Engineer / AI Engineer

GUSA Capital

Playa del Carmen, Mexico and Remote

January 2023 – April 2026

- Designed and developed production backend systems using Python and Node.js for customer management, reporting, financial modeling, document processing, dashboards, and business automation.
- Built and maintained application and data systems supporting 350K+ customers and 500K+ operational records.
- Developed data-processing and event-driven workflows using Python, SQL, and Kafka for high-volume analytics, dashboarding, and automated processes.
- Designed REST APIs, databases, backend architecture, and integrations, while supporting deployments, debugging, and production operations.

Data Analyst / Systems Analyst

GUSA Capital

Playa del Carmen, Mexico and Remote

November 2019 – December 2022

- Developed SQL queries, dashboards, automated reports, and maintained data infrastructure supporting operational decision-making.
- Built predictive analytics solutions for sales forecasting, demand modeling, customer behavior analysis, and classification.
- Managed Linux servers, databases, backups, deployments, and internal application infrastructure.

Skills

- **Programming:** Python, JavaScript/TypeScript, Go, C/C++
- **Backend & Distributed Systems:** Node.js, FastAPI, Django, REST APIs, WebSockets, Kafka, Redis, Event-Driven Architectures, System Design
- **Real-Time & AI:** VoIP/SIP, Asterisk, Whisper, Speech Processing, LLMs, RAG, NLP, Conversational AI
- **Data & Storage:** PostgreSQL, MongoDB, MySQL, SQL Server, SQL, ETL/ELT
- **Cloud & Infrastructure:** AWS, DigitalOcean, Docker, Linux, CI/CD, GitHub Actions
- **Security:** JWT, OAuth
- **Languages:** Spanish (Native), English (C2), French (B2)

Projects

Softphone AI — Real-Time Voice & Conversational AI Platform

- Designed and developed a real-time communications platform integrating VoIP/SIP, backend services, WebSockets, speech processing, transcription, and conversational AI.
- Built with Python, FastAPI, JavaScript/TypeScript, Angular, Asterisk/SIP, PostgreSQL, Docker, Whisper, speaker diarization, and LLM integrations.
- Designed REST APIs and real-time communication flows between telephony, backend, AI-processing, database, and client components.

Education

M.S. Data Science and Business Analytics

January 2023 – December 2024

HEC Montréal, Canada

B.S. Engineering Physics

August 2016 – December 2021

Universidad de Guanajuato, Mexico