

Giselle Martinez-Sanchez

Software Engineer | Backend & Cloud | Full-Stack

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SUMMARY

Software engineer with 2+ years of production experience building backend systems and cloud infrastructure on AWS, and 3 years teaching full-stack development to 50+ engineers. BS in Computer Science, CSU Global (March 2026). Strongest in event-driven backend architecture, AWS serverless services, and PostgreSQL — with full-stack range across the MERN stack. Fast to ramp on new tools, comfortable working independently in remote-first environments.

EXPERIENCE

Full-Stack Software Engineer | OKO

Sep 2022 – Oct 2024

- Built the core document processing pipeline for a logistics tech plugin — connecting to freight brokers' inboxes, parsing email attachments (rate confirmations, load tenders, carrier packets), extracting structured data, and loading it into each customer's TMS with custom business rules per client.
- Designed and deployed a multi-tenant webhook system using AWS API Gateway, Lambda, FIFO SQS, and EventBridge — handling external event streams with per-customer token isolation and secure credential management via Secrets Manager.
- Maintained a TypeScript + AWS Lambda backend for automated email processing end-to-end: ingestion, parsing, transformation, and TMS sync — managing deployments and production stability with zero-downtime rollout practices.
- Monitored production systems via AWS CloudWatch — tracking Lambda execution, delivery latency, and failure patterns across the processing pipeline to drive reliability improvements.
- Maintained and evolved a monolithic PostgreSQL database supporting multi-tenant data isolation, schema migrations, and customer-specific configuration storage.
- Integrated TMS partners across varied protocols — REST APIs, FTP/SFTP, EDI, XML, JSON — normalizing data exchange across systems with different technical requirements.
- Contributed to a Next.js dashboard using Tailwind CSS and Zustand; collaborated with product and ML teams on feature delivery aligned to business logic.

Web Development Consultant | Bryan University

Dec 2019 – Sep 2022

- Debugged JavaScript issues across 30+ student projects spanning full-stack applications, sharpening systematic troubleshooting across frontend and backend.
- Guided 50+ students through full-stack development on the MERN stack — from server setup to client-server communication and deployment.
- Taught relational and non-relational database design (PostgreSQL, MySQL, MongoDB), helping students build data-integrity habits through hands-on schema work.
- Led weekly workshops and one-on-one sessions across time zones, developing a communication style that keeps technical concepts precise and accessible.

SKILLS

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

Backend & Cloud: AWS Lambda, API Gateway, SQS (FIFO), EventBridge, CloudWatch, Secrets Manager, EC2, S3, Node.js, REST APIs, Event-Driven Architecture

Databases: PostgreSQL, MySQL, MongoDB (schema design, relational modeling, migrations)

Frontend: React, Next.js, Tailwind CSS, Zustand, Redux

Tools & Frameworks: Docker, Docker Compose, Django, Git, Postman, Linux/Bash, Agile/Scrum, Terraform (IaC familiarity)

Exposure: Jira, Figma, GitHub Actions, Jest, C#, Java, Flask, Redis, NGINX, Vue

EDUCATION

Bachelor of Science, Computer Science

Graduating March 2026

Colorado State University Global

Bachelor of Science, Information Technology

Mar 2021 – Jun 2024

Purdue University Global

Academic Associate, Full-Stack Web Development

Aug 2019 – Apr 2021

Bryan University