

Jacobo Covarrubias Zapata

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PROFESSIONAL SUMMARY

Full Stack Engineer with 4+ years of experience building scalable ERPs and event-driven systems. Expert in reducing operational costs through architecture optimization (NestJS/AWS). Proven track record of delivering production-grade software for US and LatAm markets.

SKILLS

Languages: JavaScript, TypeScript, Python.

Frontend: HTML/CSS, React, Next.js, Zustand, MobX, TailwindCSS, Shadcn, Material UI, Jest, Cypress, npm.

Backend: Express, NestJS, Node.js, REST, GraphQL.

Databases: PostgreSQL, MongoDB.

Cloud & Infrastructure: Docker, Kubernetes, Github Actions, Amazon Web Services (SNS, SQS, S3, Lambda).

Tools & AI: Cursor, Claude Code, Git, Figma, Jira, Notion.

WORK EXPERIENCE

Software Engineer, Assuresoft

October 2023 – Present

- Architected an event-driven notification system using AWS SNS and AWS SQS to send daily event alerts to 30K+ subscribers, ensuring reliable message delivery with 99.9% success rate
- Modernized the user profile page interface and settings, improving user experience while maintaining all functionality for 200k+ users using this layer
- Technologies:** TypeScript, Node.js, React, Zustand, Express, PostgreSQL, Docker, AWS (SNS, SQS, S3, Lambda).

Software Engineer, TechBol

July 2022 – August 2023

- Led the development of a new module that collects real-time financial sales information from 20+ branches nationwide using WebSockets, reducing communication time by 50%
- Implemented dynamic PDF report generation and cloud storage, accelerating the finance integration process by 70%
- Technologies:** TypeScript, Node.js, React, MobX, NestJS, PostgreSQL, Docker, Kubernetes, AWS (S3).

Full Stack Developer, START Americas Together

January 2022 – June 2022

- Configured CI/CD pipelines for automated build, testing, and secrets management using GitHub Actions, reducing deployment time by 80% and eliminating manual deployment errors
- Technologies:** Github Actions, TypeScript, Node.js, React

Front End Developer, WALAWA

June 2021 – November 2021

- Developed a D3.js analytics dashboard to visualize scooter usage time and rental revenue across city zones
- Technologies:** Javascript, Node.js, Python, React, D3.js, Django

EDUCATION

Bachelor of Science - BS, Computer Science, Universidad Católica

June 2023

CERTIFICATIONS

AWS Certified Cloud Practitioner | Amazon Web Services

September 2025

GitHub Foundations | GitHub

July 2024

PROJECTS

ACSYS

- Built a cost accounting application for national artisan producers using NestJS, MongoDB, React and Redux.
- Deployment made using containerization with Docker and cloud services of Cloudflare