

Israel Santana (Izzy): *SWE with a focus on React and Spring Boot*
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SKILLS

Languages: Java, JavaScript (ES6+), TypeScript, SQL.

Frontend: React, Next.js, Tailwind CSS, HTML5, CSS3.

Backend: Spring Boot, Node.js, Express.js, PostgreSQL, MongoDB.

Tools: Git, GitHub, Stripe, Figma, VS Code, MCP.

EXPERIENCE

Backend Developer (Internship), Archetype Dynamics, Inc. | Sep 2025 – Present

- Engineered an asynchronous video processing pipeline using Spring Batch to orchestrate the end-to-end lifecycle of large media files, from ingestion to AI analysis.
- Eliminated `OutOfMemoryError` exceptions by refactoring the storage client to use stream-to-disk processing, replacing memory-intensive byte-array downloads with a resource-efficient `RestClient` approach.
- Integrated external FFmpeg processes to automatically segment videos into 60-second chunks, enforcing strict 1.7GB size constraints for downstream processing reliability.
- Implemented AI-driven coaching feedback by integrating Gemini AI models; designed structured JSON prompts to extract granular metrics such as pace, filler words, and engagement scores.

Frontend Developer (Apprenticeship), DSD Group | Jan 2025 – Apr 2025

- Contributed to an agile apprenticeship, collaborating with a team of junior engineers to build "**Super**," a property management portal MVP.
- Engineered core frontend components in **React** and **TypeScript** for resident access control, including a remote lock/unlock feature for apartment doors.
- Developed a comprehensive guest management system for issuing temporary digital keys and reserving guest parking permits.
- Presented a live video demonstration of the final project to an audience of over 300 peers and industry professionals.

PROJECTS

Chatter

- Architected a real-time chat application for organizations using **Next.js**, **Socket.IO**, and **MongoDB** to facilitate seamless internal communication.
- Implemented secure user authentication and authorization with **NextAuth.js**, ensuring private and secure access for registered members.
- Engineered full CRUD functionality for messages and a dynamic online/offline user status tracker.
- **Tech Stack:** Next.js, Node.js, Express.js, MongoDB, Socket.IO, NextAuth.js, Tailwind

Nissan Experience

- Developed a responsive, full-stack web application to showcase Nissan's vehicle lineup, featuring a dynamic vehicle grid and detailed model pages.
- Integrated the **Stripe API** in testing mode to create a simulated vehicle purchase experience.
- Built a robust backend with **Node.js**, **Express.js**, and a **PostgreSQL** database to manage vehicle data and user inquiries.
- **Tech Stack:** Vite, React, Node.js, Express.js, PSQL, Stripe, Tailwind

VOLUNTEERING

Event Organizer & Content Creator, NY Code & Coffee | Mar 2024 - Present

- Co-organize bi-monthly tech meetups for 200+ attendees, managing logistics and fostering a welcoming community environment.
- Create engaging short-form video content to promote meetups and highlight the energy of the local tech scene.
- Provide support during hackathons to ensure a seamless and productive experience for all participants.

Event Volunteer & Content Creator, A Night of AI (NYC) | Jun 2025

- Supported a hybrid tech event with 250+ attendees by managing venue logistics and ensuring a smooth guest experience.
- Drove online engagement by moderating the livestream chat and creating post-event video shorts that generated over 1,400 impressions.

EDUCATION

Bachelor's Degree, Political Science & Journalism City University of New York City College