

Johnny Avila | Software Engineer

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[GitHub](#) | [Portfolio](#) | [LinkedIn](#)

SKILLS

JavaScript (NextJS, React, Redux, Node.js, Sequelize), Python (Flask, SQLAlchemy), Relational DBs (PostgreSQL, SQLite), NoSQL DBs (Firebase), Web Dev (HTML, WebSocket), Styling (CSS, Tailwind)

EXPERIENCE

Software Developer (contract) | NextJS, React, Prisma, Postgres, Tailwind, Strapi, Vercel AI SDK Nov 2023 - Present

The VDG Group - *Web/mobile apps & AI firm serving industry leaders like Walmart Labs & Paypal*

[Company Site](#)

- Leveraged Vercel AI SDK to develop interactive coding interview practice platform with live evaluation and feedback.
- Built reusable, responsive, and optimized client and server components using React for complex user flows.
- Migrated site from Wordpress to NextJS, enhancing performance and scalability with SSR and SSG.
- Developed a robust user authentication and authorization system, allowing users to securely sign up and sign in via Google, GitHub, Facebook, or passwordless email.
- Architected a headless CMS solution by integrating content from Strapi, allowing for content editing, post scheduling, and management.

Open Source Software Engineer

Notesnook - *End-to-end encrypted note-taking platform built with TypeScript, React, and Node / Express*

[live](#) | [github](#)

- Implemented frontend user privacy feature for the platform's web application developed with TypeScript and React.

FEATURED PROJECTS

Wavelength | Javascript, React / Redux, CSS, NodeJs, Sequelize, PostgreSQL, Websockets

[live](#) | [github](#)

Real-time multiplayer word association game developed with React and Node / Express

- Developed real-time communication system using WebSocket for simultaneous gameplay and live updates.
- Built reusable functional components with React to handle user input and display gameplay data - utilizing Redux for state management
- Implemented relational database utilizing Sequelize as the ORM and PostgreSQL as the DBMS.

Quoted | NextJS, Tailwind, Firestore, JavaScript

[live](#) | [github](#)

NextJS powered web application that allows users to share and discover quotes

- Utilized React and Tailwind with NextJS to build a responsive, accessible, and cross-browser compatible user interface.
- Developed reusable React hooks to efficiently handle data flow between front-end and back-end systems.
- Implemented a NoSQL database using Firestore to manage user and quote data.

GITHUB CODE (ADDITIONAL)

- **Water the Trees** | *Environmentalism platform built with React, Node, Mapbox, and Postgres* [live](#) | [github](#)
 - Patched frontend components for open-source software with 22 contributors.
- **In Progress AI Tools for Content Creators** | *Aggregator site built with NextJS, Prisma, and Tailwind* [live](#) | [github](#)
 - Implemented search feature for filtering PostgreSQL records by category and text query parameters.
- **Meetup Clone** | *Javascript, React / Redux, NodeJs, Sequelize, PostgreSQL, Render* [live](#) | [github](#)
 - Created RESTful APIs, implemented robust authentication, and crafted responsive UI components.
- **Leetcode Solutions** [github](#)
 - 100+ Python and JavaScript solutions to data structures and algorithms problems.
- **Crim Search** | *Chrome Extension built with JS, HTML, and CSS* [live](#) | [github](#)
 - Developed to optimize and automate repetitive data extraction and storage tasks in paralegal work.

EDUCATION

App Academy
Northwestern University

Certificate in Software Engineering, 2022 - 2023
Bachelor of Science in Political Science, 2017 - 2021