

JOSE VALDIVIA

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EDUCATION

University of Maryland, College Park

May 2024

B.S. in Computer Science and Minor in Mathematics

- Coursework: Web development, Mobile development, Machine Learning, Algorithms, Functional programming.
- Activities: Hackatton Bitcamp (2023)

EXPERIENCE

D.C Code Officials Association

Washington, D.C

Lead Software Developer Intern

Jun 2023 – Sep 2023

- Led and trained interns, conducted code reviews to ensure code quality and scability using SOLID principles.
- Built a CMS dashboard with permissions management, saving \$300/year from WordPress Business Plan.
- Leveraged Server-side rendering (SSR) and a **cache system** with Next.js, improving UX, page loading times, and SEO.
- Led the development of a dynamic calendar from scratch, linked with CMS to display admin events with a payment system.
- Other major features include: secured authentication, modern text-rich editor, newsletter system, Cloudinary image storage, and Stripe payment integration.
- Collaborated in an agile manner and closely coordinated with Product Manager to achieve website goals.

PROJECTS

Code Scope Highlighter (Typescript)

- Developed a VSCode extension for highlighting code, hosted on the marketplace, with +30 downloads.

SandBox.tv (Next.js)

- Created a streaming platform enabling users to watch live streams from both YouTube and Twitch simultaneously, optimizing browser RAM consumption by 30%.
- Developed a search engine, secure OAuth with Bearer, and caching mechanism, reducing Twitch and Youtube APIs calls.

AppTracker (Javascript)

- Led 3 peers in the development of a **MERN** application aimed to assist students in their job-hunting journey.
- Implemented API endpoints in **Express.js** to manage users, streamline job applications using modern data tables, showcase user personalized events in a calendar, and download user data through email notifications.
- Currently integrating an **AI** for real-time updates and notifications on job applications changes.

Blog and Docs (Next.js)

- Developed a personal blog and documentation website to share my notes and recent learnings.
- Built using Next.js, Content Layer for rendering Markdown files on the server, Serveless Postgres DB, and Vercel for hosting, achieved a 99% in lighthouse website perfomance.

SKILLSET

Technologies: TypeScript, React.js, HTML, CSS, Tailwind, MERN, Node.js, React Native, Cypress, Playwright, Vitest, Jest.

Databases: Redis, PostgreSQL, SQLite, NoSQL.

Concepts: MVC, SOLID, Monorepo, REST API, tRPC, OpenAI, Caching, Websockets, JWT, Server-side Events, Cron Jobs.

Tools: Docker, AWS Lambdas/S3, Cloudflare R2/Workers/Pages, Ddos protection, Framer Motion, Zod, Stripe, Zustand, Redux.