

# Alejandro Perez

## Software Engineer

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

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### EDUCATION

**DigitalCrafts** | Certificate in Full Stack Web Development February 2023 – June 2023

- 17 week program, 5-days a week, 70 hours per week invested coding
- Worked on 3 group projects, 1 solo project, and daily homework assignments

#### **Topics covered include:**

- Frontend development using [HTML5](#), [CSS3](#), [Bootstrap](#), [Javascript](#), and [AJAX](#)
- Building RESTful APIs and Server-Side websites via [Node.js](#), [Express](#), and [Mustache](#)
- Proficiency in working with SQL and NoSQL databases, utilizing raw queries and ORMs with [PostgreSQL](#), [MongoDB](#), [Sequelize](#), and [Mongoose](#)
- Creating modern single-page web applications with state management with [React.js](#) and [Redux](#)

**University of Houston** | Bachelor of Music (Composition) August 2017 – December 2022

- Graduated with honors (cum laude), demonstrating consistent academic excellence throughout the program
- Recognized for exceptional artistic merit by winning the Sarofim Composition Contest (2021)
- Served as Conductor & Music Director of VCO (2018 - 2020), a student led volunteer orchestra dedicated to bringing classical performances to underprivileged communities in the Houston area

### PROFESSIONAL EXPERIENCE

**MM General Contracting** | Freelance Web Developer June 2023 – Present

- Independently spearheaded the creation of MM General Contracting's website, architecting a dynamic online presence from inception using modern technologies including [Typescript](#), [React.js](#), and [TailwindCSS](#).
- Elevated user accessibility on both web and mobile platforms, ensuring inclusivity and seamless navigation.
- Engineered a command-line interface (CLI) tool with [Node.js](#), [Typescript](#), and [Docker](#), resulting in a substantial reduction in image sizes. This enhancement translated to notable improvements in website load times and image optimization, ultimately enhancing the overall user experience.
- Thoroughly managed the entire development lifecycle, from inception to operation and ongoing maintenance of the website.

### ENGINEERING PROJECTS

**resizer-cli** | [Github Repo](#) | [NPM Package](#) | [Video Demo](#) September 2023

- Developed a command-line interface (CLI) tool catering to developers, designed for effortless batch resizing of images within a designated folder.
- Implemented seamless integration of FFMPEG with Docker, empowering developers with the capability to dynamically and efficiently resize images virtually.
- **Built with:** [Node.js](#), [Typescript](#), [FFMPEG](#), [Docker](#)

**Application Tracker** | [Github Repo](#) | [app-tracker-three.vercel.app](#) July 2023

- Independently developed a sophisticated job application tracker, offering users a sleek and intuitive platform to manage and monitor their job applications effectively.
- Integrated AWS Lambda and AWS EventBridge to check the status of pending applications daily.
- **Built with:** [Next.js](#), [Typescript](#), [TailwindCSS](#), [shadcn/ui](#), [Supabase](#), [Prisma](#), [NextAuth](#), [AWS](#)

**EzGo** | [Github Repo](#) | [Video Demo](#) | [ezgo.vercel.app](#) June 2023

- Group Size: 2
- EzGo is a capstone project aimed at providing users with a platform to plan their commutes using eco-friendly modes of transportation.
- Responsible for integrating OAuth authentication, UX/UI, and Google Maps API implementation
- **Built with:** [Next.js](#), [Redux Toolkit](#), [Javascript](#), [TailwindCSS](#), [MongoDB](#), [Prisma](#), [NextAuth](#)

**Pub Crawl** | [Github repo](#) | [pubcrawl.vercel.app](https://pubcrawl.vercel.app)

May 2023

- Independently developed a dynamic application that simplifies pub exploration, allowing users to effortlessly discover and explore local pubs, access comprehensive information on various beers, and find exciting venues in different cities.
- Responsible for integrating two APIs, designing and implementing the user interface, and configuring authentication functionality.
- **Built with:** [React](#), [Redux Toolkit](#), [TypeScript](#), [TailwindCSS](#), & [Supabase](#).

**Projectied** | [Github repo](#) | [Video Demo](#) | [projectied.onrender.com](https://projectied.onrender.com)

April 2023

- Group Size: 2
- Collaborative management app that allows users to create projects/lists and organize their tasks within each project.
- Primary responsibilities included implementation of the entire backend, including database and authentication, and API implementation to enable real-time updates.
- **Built with:** [HTML5](#), [CSS3](#), [JavaScript](#), [Node.js](#), [PostgreSQL](#), & [Auth0](#).

**My Gamer List** | [Github repo](#) | [mygamerlist.onrender.com](https://mygamerlist.onrender.com)

March 2023

- Group Size: 2
- Video game database search app for Gamers to help and encourage discovery of new (& old) gaming experiences.
- Responsible for developing the end-to-end functionality, including API integration and creation of pop-out menus.
- **Built with:** [HTML5](#), [CSS3](#), [TailwindCSS](#), [JavaScript](#).