

Alejandro A. Lopez

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Summary

Results-driver Full Stack Engineer with over 2 years of dedicated experience in designing, developing, and maintaining dynamic web and mobile applications. Highly skilled with JavaScript frameworks such as React and React Native, and swift at embracing emerging technologies. Proficient collaborator with a track record of delivering top-tier products within time-sensitive environments. Looking to gain meaningful industry experience and expertise in a challenging role as a Full Stack Engineer.

Education

Dartmouth College, Hanover, NH

June 2023

Bachelor of Arts, Major in Computer Science, Minor in Digital Arts

Relevant Coursework: Full-Stack Web Development, Machine Learning, Artificial Intelligence, Software Design and Implementation, Algorithm, VR and AR Development

Skills

Languages: JavaScript, TypeScript, HTML, CSS, Tailwind CSS, Python, C#, Java

Libraries/Frameworks: React, React Native, Next.js, Node.js, Express.js, GraphQL, MaterialUI, Stripe, Chart.js, Jest

Tools: Git, GitHub, VS Code, REST APIs, NPM, Webpack, Redux, Heroku, Render, Vercel, Postman, MongoDB, SQL, Expo, TestFlight, AWS S3, Figma

Relevant Experience

Senior Software Engineer, Development Mentor

Dartmouth Applied Learning and Innovation Lab, Hanover, NH

September 2019 – June 2023

- Paid to develop mobile and web applications in teams of 5-6 student developers, designers, and project managers over 10-week terms for clients such as Dartmouth researchers, external start-ups and social impact companies
- Developed apps using React and React Native frameworks, using best HTML, CSS and JavaScript practices.
- Planned and engineered multiple APIs using Node.js, Express.js, MongoDB, and AWS
- Implemented CI/CD pipelines within a DevOps framework, ensuring seamless communication with clients and rapid feature integration in fast-paced sprints
- Led multiple teams of 2-3 student developers, taking responsibility on task assignments and helping them with best Full-Stack practices via scheduled check-ins and work sessions either on-site or remotely
- Actively participated in 2-3 weekly Agile meetings, fostering collaboration among team members and clients to track progress and refine project goals, ensuring the delivery of high-quality products

Full Stack Engineer Intern

ConnectUS, Miami, FL

June 2022 – September 2022

- Developed new features for the ConnectUS startup's web app for employee management, such as allowing managers to arrange group meetings, enhancing the scheduling system, and logo inputs
- Developed on the frontend using React to add the features previously mentioned while keeping the style of the app using the Material UI library
- Familiarized myself with the backend using TypeScript and Firebase, being able to make the necessary changes for some frontend features to work with new technologies
- Attended biweekly meetings with the staff and founders of the ConnectUS startup, communicating progress and discussing next steps, using Agile methodologies to manage tasks

Full Stack Engineer, Development Mentor

BayesEM, Hanover, NH

Spring 2022 (3 mos.), Fall 2022 (3 mos.)

- Led the development of the BayesEM mobile app as part of a 2-term DALI Lab team project, with clients from the Dartmouth Hitchcock Medical Center (DHMC)
- Engineered multiple app features, such as allowing doctors to store anonymous patients' diagnoses, archive them by sending data to a Google Sheet for statistical purposes, and compute likelihoods of several medical conditions from symptom surveys using medical literature and Bayesian inference
- Managed a team of 3 developers, developing the frontend in React Native while my 2 teammates built an API on Flask and a MongoDB database
- Mentored my teammates on best API practices and frontend integration, using check-ins and work sessions to keep a good communication
- Attended weekly meetings with clients, project managers, and designers, discussing next steps and providing updates on the MVP before deploying it to TestFlight

Full Stack Engineer

Lionheart Foundation, Dedham, MA

June 2021 – September 2021

- Connected through DALI Lab to continue working on their mobile app EQ2 during the summer as a solo developer, in order to advance the development of the app started by my DALI team on the previous term
- Familiarized myself with the EQ2 app's purpose of helping Lionheart instructors to empower trauma-impacted youth on reintegrating society
- Attended weekly meetings with Lionheart staff to discuss design decisions and give updates on the state of the app
- Developed new features for the app using React Native for the frontend and Express.js for the backend, implementing video and audio galleries using the S3 service from AWS
- Released the app on TestFlight for user testing. It is currently finished and being used by Lionheart staff and their partners, with over 100 downloads on the Play Store

Projects

Task Management App | React, Next.js, Tailwind CSS, Node.js, Express.js, MongoDB, Figma

- Personal project hosted [here](#)
- Designed and developed a user-friendly, responsive web application for managing tasks and keeping track of weekly routines. It includes features like server-side rendering, CRUD functionalities, and date algorithms.

E-Commerce | React, Next.js, Tailwind CSS, Node.js, Express.js, MongoDB, Figma, AWS S3, Stripe

- Personal project hosted [here](#)
- Designed and developed an e-commerce website for my portfolio, featuring products like gaming laptops, mice, keyboards, and headsets. It includes features like product sorting, laptop component customization, images from S3 storage in the cloud, and use of the Stripe library to manage checkout.

Wordwiz | React, CSS, TypeScript, Chart.js

- Collaborated on the development of a Chrome extension for language learning through Youtube videos as part of a team of six CS majors. My contributions include the word mastery system, learning dashboard, and graphs.