

Alejandro Lopez

Dynamic Software Engineer with over 2 years of experience driving results through the design, development, and maintenance of cutting-edge web and mobile applications. Demonstrated proficiency in utilizing JavaScript frameworks including React and React Native, while remaining agile in adopting emerging technologies. Expert collaborator with a proven ability to deliver high-caliber products within fast-paced, deadline-driven environments. Eager to leverage industry knowledge and skills to excel in a challenging Software Engineer role.



Personal Information

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Github: <https://github.com/AlejandroALopez>



Education

Computer Science | Bachelor of Arts Dartmouth College

09/2019 – 06/2023 HANOVER, NH, US

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



Work Experience

Senior Software Engineer Digital Applied Learning and Innovation Lab

09/2019 – 06/2023 HANOVER, NH

- Collaborated with teams of 5-6 student developers, designers, and project managers to develop mobile and web applications for Dartmouth researchers, external start-ups, and social impact companies over 10-week terms of paid work
- Utilized React and React Native frameworks to develop apps, implementing 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 for task assignments and providing guidance on best development practices through scheduled check-ins and work sessions, both on-site and remotely
- Actively participated in 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

06/2022 – 09/2022 MIAMI, FL

- Developed new features for the ConnectUS startup's web app for employee management, including the implementation of group meeting arrangements, enhancements to the scheduling system, and logo inputs.
- Utilized React on the frontend to integrate the aforementioned features while maintaining the app's visual style using the Material UI library.
- Acquired proficiency in the backend utilizing TypeScript and Firebase, enabling the adaptation of frontend features to function seamlessly with new technologies.
- Actively participated in weekly meetings with the ConnectUS startup staff and founders, effectively communicating progress and engaging in discussions concerning next steps, employing Agile methodologies for task management.



Work Experience

Senior Software Engineer
BayesEM

04/2022 – 11/2022 HANOVER, NH

- Led the development of the BayesEM mobile app as part of a 2-term DALI Lab team project, collaborating with clients from the Dartmouth Hitchcock Medical Center (DHMC)
- Engineered various app features, including the implementation of a secure system for doctors to confidentially store patients' diagnoses, archiving the data by sending it to a Google Sheet for statistical analysis, and utilizing medical literature and Bayesian inference to compute likelihoods of multiple medical conditions based on symptom surveys
- Managed a team of 3 developers, overseeing the development of the frontend using React Native, while guiding my teammates in building an API on Flask
- Mentored and provided guidance to my teammates on best practices for API implementation and frontend integration, fostering effective communication through regular check-ins and work sessions

Software Engineer
Lionheart Foundation

06/2021 – 09/2021 DEDHAM, MA

- Collaborated with DALI Lab to continue development of the mobile app EQ2 as a solo developer during the summer term
- Acquired a comprehensive understanding of the EQ2 app's mission to support Lionheart instructors in empowering trauma-impacted youth during their reintegration into society
- Implemented new functionalities for the app using React Native for the frontend and Express.js for the backend
- Successfully incorporated video and audio galleries by leveraging the S3 service from AWS
- Currently deployed and actively utilized by Lionheart staff and their partners, with a notable 100+ downloads on the Google Play platform.



Certificates

AWS Certified Cloud Practitioner
Amazon Web Services

09/2023

Validation Number: MTF35LN1VF1E1WKX



Skills

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|------------|--------------|---------|
| React | React Native | NextJS |
| JavaScript | TypeScript | NodeJS |
| ExpressJS | Python | MongoDB |
| SQL | GraphQL | Figma |









Strengths

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|---------------------|---------------------|----------------------|
| Technical expertise | Problem-solving | Communication skills |
| Analytical thinking | Attention to detail | Team collaboration |



Hobbies

| | | |
|---|--|--|
|  UI/UX Design |  Planning |  Video Games |
|  Boxing |  Archery |  Cooking |