

David Mejia

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SKILLS

React, Redux, Python, JavaScript, TypeScript, HTML, CSS, SQL, PSQL, Flask, Docker, Git, NodeJs, Sequelize, RESTful API's, Alembic, D3.js, Django, React Native, Tensorflow 2.0, GPT integration, Pandas,

EXPERIENCE

Full-Stack Lead Software Engineer in charge of main product development.

ArbiLex, a Data-driven Litigation Finance solutions company.

Jun 2022 - Present

- Rapidly assumed responsibility as the main engineer in the company creating, debugging and maintaining platforms, new features, **MVP's** and **Demos**.
- Implemented use of **Redux** state, thunks and reducers ensuring proper state management in **React SPAs** and **RESTful API** calls.
- Administered **Heroku** application instances to host Production and Staging environment deployments.
- Leveraged the use of **CircleCi** ensuring proper functionality and tests pass for application deployment on production environments.
- Managed backend services on **AWS** hosted applications with **EC2's**, **S3 Buckets**, creating **IAM Users** and **.pem keys**.
- Created and managed **PostgreSQL** database tables and relationships leveraging the use of **Django's** ORM.
- Constructed full **CRUD** operational functions for **REST** API's in Django.
- Built and maintained an innovative frontend marketplace platform product from scratch given business orientation and goals.
- Generated client side data related visualizations using **D3.js**.
- Led teams of up to 4 engineers, delegating tasks to ensure efficient workflow and proper goals met specified timelines. Collaborated with Dev Shops ensuring clear and concise deliverables, tasks, and timelines.
- Developed and administered take-home exercises and projects for potential hires; interviewed software engineers both backend and frontend as well as data scientists.
- Maintained proper documentation for frontends and backends, providing clear and useful guidance for team members; Onboarded new engineers to the codebase for backend and frontend roles.
- Collaborated closely with design teams to implement responsive pixel perfect and up-to-date UX/UI best practices using **Figma**.

Full-Stack Software Engineer

Orlando Stars Soccer Academy

March 2021 - June 2022

- Re-designed an outdated Wix site leveraging **Figma**.
- Implemented design into code with pixel perfect precision transferring the WIX site to a Heroku hosted full stack **React** and **Flask** SPA.
- Collaborated closely with business owners on representing business values on the new site
- Added video and photo galleries to showcase services offered leveraging inhouse and 3rd party libraries.
- Created contract forms and automations with **SendGrid** to ensure communication with prospects.
- Setup **Stripe** payments to offer a flawless payment service inside the app.
- Implemented custom **Business Process Automations (BPA)** for invoicing, sending and receiving signed contracts, lead generation messaging and notifications.

PROJECTS

Pandora PDF (Nextjs, Nodejs, GPT-4, TypeScript, JavaScript, RESTful API's, AWS, Tailwind, Langchain)

A PDF reading app that allows users to upload and query within PDF documents leveraging GPT and Pinecone

- Implemented OpenAI's **GPT-4 API** using **node-fetch** to accurately use **Retrieval Augmented Generation (RAG)** within PDF queries.
- Enabled long term AI memory by using **Pinecone Vectorized Database**.
- Added **Langchain** framework to leverage powerful util functions for parsing documents.
- Leveraged the use of **TypeScript** for secured processing of data and data types.
- Utilized **Nextjs**, for fast and optimized web interactions.

Nomadika (Flask, Python, React, JavaScript, RESTful API's, Docker)

A travel companion app with a rich visual UI that provides venue information of any city and interaction with other users

- Implemented Foursquare's **Places API** using **node-fetch** to accurately receive data from any city.
- Administered **RESTful API**'s leveraging async JavaScript using **React** and **Redux** store and state to accomplish multiple calls on a single page, so users can have **CRUD** functionality on posts, comments, and bucket list destinations.
- Incorporated **Python** and **Flask** backend framework to manage calls using **SQLAlchemy** ORM for database querying.
- Adopted the use of **Docker** containers by using Dockerfiles and images to facilitate the use of the web app in virtual environments and easy deployment to **Heroku** with **GitHub Actions**.

Travl'r (React, Redux, JavaScript, Express) *React/Redux and Express flickr based app that allow users full CRUD on photos and comments.*

- Ensured the privacy of users by implementing **BCrypt Hashing** function in the backend and auth routes in the frontend, thus preventing storage of plain text based passwords and restricting access to specific content/functionality.
- Properly managed **React** and **Redux** store by dispatching thunks and **API** calls to ensure seamless data rendering in the front end for full **CRUD** functionality..
- Instituted the use of **Express.js** and **Node.js** to accurately handle **API** calls and manage the manipulation of data in a **PostgreSQL** database with the **Sequelize** ORM .

GrammyGram (Flask, Python, React, JavaScript, RESTful API's, Docker)

A spinoff clone of the instagram web app, allows a user to interact with and explore posts.

- Directed a team of 4 engineers allowing proper time management, workload division and delegation, and provided feedback on functionality using **Agile Software Development**.
- Crafted and refined the use of **API** calls from **React** and **Redux** frontend to the **Flask** backend achieving accurate data manipulation and **CRUDs** for images and comments.
- Designed and curated the use of colors, images, fonts and **CSS** to ensure a fluid UX/UI design across the platform.
- Constructed backend routes in **Python** to communicate seamlessly with **React** and **Redux** frontend as well as communication between backend and **PostgreSQL** database using **Alembic** and **SQLAlchemy**.

EDUCATION

Web Development - **App Academy** | Feb 2021

- Rigorous 1000-hour software development course with <3% acceptance rate
- Topics include: TDD, scalability, algorithms, OOP, Back End, Front End, Full Stack, coding style, REST, security, single-page apps, pair programming, and web development best practices.

BS Biology, Pre-Med coursework: **University of Massachusetts Boston** | 2013 - 2018