David Mejia

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SKILLS

React, Redux, Python, JavaScript, TypeScript, HTML & HTML5, CSS & CSS3, SQL, PSQL, Flask, Docker, GraphQL, Hydrogen, Git, NodeJs, Sequelize, REST API's, Alembic, D3.js, Django, React Native, Tensorflow 2.0, GPT integration, Pandas, MongoDB, Heroku, AWS, Figma, Tailwind, SASS & SCSS, Stable Diffusion, Gen Al, Pinecone DB, LangChain, StackAl, CrewAl, Flowise, Chrome Extension, LLM Integration, Astro.JS, Matplotlib

EXPERIENCE

Lead Software Engineer and AI integration

Omni Nexus LLC. Sep 2023 - Present

- Implemented Retrieval Augmented Generation systems with LLM's, PineconeDB and LangChain.
- Administered projects for business automation tasks using code and no-code solutions.
- Managed databases with custom knowledge bases on Upstash, PineconeDB, PostgreSQL and LangSmith.
- Managed AWS Admin functionalities like PEM keys, EC2 and S3 for storage.
- Created Next.js based apps with Node.js backends for integration of LangChain and REST API's.
- Styled apps with CSS, Tailwind, AntDesign and SASS.

Shopify Hydrogen/React Fullstack Engineer

Cattleya The Label (CTL). Dec 2023 - June 2024 (Contract)

- Built custom headless eCommerce storefronts using Shopify, React, Remix and Hydrogen H2.
- Integration of data fetching with **Remix Loader** functions for state management, SSR and client side rendering.
- Implemented GraphQL API endpoints for Shopify data fetching.
- Deployed testing and production ready storefronts, managing administrative tasks via the Shopify Admin
 Panel.
- Developed responsive, mobile-friendly UI/UX, ensuring cross-device compatibility using HTML5 for markup,
 CSS3 & SASS and media queries.
- Created reusable extendable components in React, with creation of React Hooks.

Full-Stack Lead Software Engineer Leading Flagship App Development.

ArbiLex, a Data-driven Litigation Finance solutions company. Jun 2022 - Aug 2023

- Scoped and built flagship product with cross functional teams in design, engineering and data science.
- Integrated use of Redux, thunks and reducers for proper state management in React SPAs and REST API calls.
- Administered Heroku app instances for testing, staging & production environments with TypeScript Webpack.
- Leveraged the use of CircleCi for CI/CD deployment testing on staging and production environments.
- Managed backend services on AWS hosted Django based applications with EC2's, S3 Buckets, creating IAM
 Users and PEM keys.
- Created and managed PostgreSQL database tables and relationships with Django's ORM.
- Handle full lifecycle of REST and GraphQL API architectures with Django Rest Framework and Node.js.
 Overseeing API security, integrity and scalability.
- Generated client side data visualizations using **D3.js**.
- Led team of engineers, delegating tasks to ensure efficient workflow and proper goals met deadlines.
- Developed take-home exercises and projects for potential hires; interviewed potential hires.
- Maintained proper documentation for frontends and backends. Onboarded new engineers to the codebase.
- Collaborated with design teams to implement responsive pixel perfect UX/UI best practices using Figma.
- Utilized SASS stylesheets, BootstrapUI, MaterialUI and AntDesign from designer specs and files.
- Worked closely with Data Science & Analysis teams for handling of data hand-off.

Full-Stack Software Engineer

Orlando, Fl Soccer Academy March 2021 - June 2022 Freelance

- Re-designed outdated Wix site in Figma.
- Implemented design into code transferring the WIX site to a Heroku hosted full stack React and Flask SPA.
- Created contract forms and automations with SendGrid to ensure communication with clients.
- 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

Oculus (React, Nodejs, GPT-4, JavaScript, RESTful API's, SCSS, Flowise - Langchain, Langsmith, OpenAl Assistant)

A React based Chrome Extension for an in-browser AI powered Assistant

- Dynamic UI Components: Built responsive and interactive Popup and SidePanel interfaces using React.
- **Content Script Automation:** Integrated **MutationObserver** to dynamically track and inject React for (ChatGPT, Deepseek).
- Real-Time Communication: Enabled message passing between content scripts and the background service worker.
- **Webpack Optimization:** Configured **Webpack** for efficient bundling, resource management, and production-ready builds.
- **UI/UX Design:** Delivered polished, cross-device compatible designs using **custom CSS** and responsive layout techniquescontentScriptpopup.
- **Background Service Automation:** Managed script injection, context menu creation, and side panel control via the **background.js** service workerbackground.
- Secure and Scalable Architecture: Followed Chrome Manifest V3 guidelines, ensuring enhanced security and optimized script execution.

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 OpenAl's GPT-4 API for Retrieval Augmented Generation (RAG) within PDF queries.
- Enabled long term AI memory with **PineconeDB**.
- Added Langchain framework for powerful document parsing util functions.
- Utilized **Nextjs**, for fast and optimized web interactions.
- Hosted storage and security of data access in AWS setting up functions and rulesets for databases.

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** to accurately receive data from any city.
- Administered RESTful API's leveraging async JavaScript using React and Redux store and state, allowing full
 CRUD functionality on posts, comments, and bucket list destinations.
- Incorporated Python and Flask backend to manage calls using SQLAIchemy ORM for database querying.
- Used **Docker** containers with Dockerfiles and images to facilitate the use of the web app in virtual environments and deployment to **Heroku** with **GitHub Actions**.
- Handled full responsiveness of frontend with custom media queries and utilizing flexbox, viewport, and built in and custom React Hooks.

TravIr (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 functions in the backend and auth routes in the frontend.
- 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 .

EDUCATION

Full Stack Software - 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: University of Massachusetts Boston | 2013 - 2018