

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, GPT integration, Pandas, MongoDB, Heroku, AWS, Figma, Tailwind, SASS & SCSS, Pinecone DB, LangChain, CrewAI, Flowise, Chrome Extension Dev, LLM Integration,

EXPERIENCE

Shopify Hydrogen/React Fullstack Engineer

CTL . Sep 2023 - Present

- **Built custom headless eCommerce storefronts** using **Shopify, React, Remix** and **Hydrogen**, following best practices in code structure, security, and performance,
- Proper integration of async data fetching with **Remix Loader** functions for state management and proper SSR and client side rendering,
- **Designed and implemented GraphQL API endpoints** to streamline data fetching from Shopify, boosting load times and robust system performance
- **Deployed testing and production ready storefronts**, managing administrative tasks via the **Shopify Admin Panel**, including product uploads, description edits, and **metadata** for **SEO** optimization ensuring an Agile Development lifecycle CI/CD
- **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 proper use and creation of **React Hooks** and **Hydrogen - H2** patterns.
- Constructed Architecture for **Retrieval Augmented Generation** using LLM's, AI Vectorized Databases and LangChain, with proprietary business data.
- Leveraged the use of **PineconeDB** for customized knowledge bases for LLM's.
- Managed AWS Admin functionalities like **PEM keys, EC2** and **S3** for storage.

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.
- 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 Testing, Staging & Production frontend environment deployments, with **TypeScript** based **Webpack**
- Leveraged the use of **CircleCi** ensuring proper CI/CD functionality and tests pass for application deployment 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 leveraging the use of **Django's ORM**.
- Handle full lifecycle of **RESTful** and **GraphQL** based API architectures with **SQL & PostgreSQL** queries. Ensuring CRUD functionality with **Django Rest Framework** and **Node.js** Overseeing API security, integrity and scalability.
- Generated client side data related visualizations using **D3.js**.
- Led teams of up to 4 engineers, delegating tasks to ensure efficient workflow, concise deliverables, tasks, and goals met specified timelines.
- Developed take-home exercises and interviews for potential hires for FE, BE and DS roles.
- Maintained documentation for frontends & backends, providing clear onboarding of members
- Collaborated with design teams to implement responsive pixel perfect and UX/UI best practices using **Figma**.
- Utilized custom SASS stylesheets and **BootstrapUI** in accordance to designer specs and files.
- Worked closely with Data Science & Analysis teams for handling of data analysis & flow with **SQL & Pandas**.

Full-Stack Software Engineer

Orlando, FI Soccer Academy March 2021 - June 2022 Freelance

- Re-designed outdated Wix site in **Figma**.
- Implemented design into code with pixel perfect precision transferring the WIX site to a Heroku hosted full stack

React - Flask SPA.

- 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.
- Hosted storage and security of data access in AWS setting up functions and rulesets for database.

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**.
- Handled full responsiveness of frontend with custom media queries and utilizing flexbox, viewport, and React Hooks like **useEffect**, **useState** and custom hooks in **React** that listen to the viewport width & scroll of application.

TravlR (React, Redux, JavaScript, Express)

React/Redux and Express flickr based app that allow users full CRUD on photos and comments.

- Ensured privacy of users by using **BCrypt Hashing** in the backend and auth routes in the frontend designating clear auth roles
- Properly managed **React - Redux** store by dispatching thunks and **API** calls to ensure seamless data rendering in the front end for full **CRUD** functionality.
- Leveraged **Express.js - 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 using **Agile Software Development** practices.
- Crafted **API** calls from **React - Redux** frontend to **Flask** backend achieving proper **CRUDs** for images and comments.
- Maintained fluid UI/UX practices with CSS3.
- Constructed backend routes in **Python** to communicate seamlessly with **React - Redux** frontend as well as communication between backend and **PostgreSQL** database using **Alembic - SQLAlchemy**.

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