

Miles Hamilton

Full Stack Software Developer

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A tech agnostic, innovation-driven Full Stack Software Developer. Armed with experience working as a Front End Developer, I am specialized in React, Redux, and complex state management. Additionally, I have backend experience with Node.js and Django SQL/NoSQL databases.

Skills

Programming Languages: HTML5, CSS3, JavaScript/ES7, TypeScript, Python

Front-End: React.js, React Redux, Formik/Yup

Back-End: Node.js, Express.js, Flask, Peewee, Django REST

Databases: PostgreSQL, MongoDB

Tools: Git, Linux, Jira, Postman, Storybook, Figma

CSS Frameworks: Carbon Design Systems, Materialize, Ant Design, Bootstrap, Material UI, Victory Charts

Dev Ops: AWS: [EC2, S3, Cloud Formation], Mongo Atlas, Heroku, Firebase, Vercel, Github Pages

Development Experience

Front-End Software Developer | Prosperia Inc. | Washington D.C. | Sep 2020 – Nov 2020

Principal Front-End Software Developer (2 Month Contract) tasked with creating the UX/UI registration workflow within the prosperia application

- Utilized React Redux to persist login and registration data throughout the app as well as caching data and persisting the data throughout the application. The project abided by Agile methodologies including, reporting and creating issues through Jira, Sprints to complete specific tasks and code reviews involving the presentation and completion of features and ongoing progress.
- Assisted in the development of the user story through UI/UX practices and adhering to the primary workflow, Testing and applying API connections from the back end to the front end using Postman. In design, I used Figma to create page design features, navigate workflow, and construct user stories

Projects

Country Happiness Index

A Full Stack data visualization application.

Role: Full Stack Software Developer

Responsibilities:

- Developed and constructed the backend architecture for a RESTful API using MongoDB and mongoose to create models and store information within the database.
- Utilized JSON to transmit data to a Node instance running Express to store, update and delete
- data within MongoDB.
- Prototyped React components and features in order to construct user stories by using Figma and Sketch.
- Implemented React Hooks in order to organize, store and access backend endpoints, as well as facilitate clean and functional code.
- Connected the charting library “Victory Charts” in order to charts to programmatically visualize the data stored in React’s state

Environment: HTML5, CSS3, Javascript/ES7, MongoDB, Mongoose, Node.js, Express.js, React.js, Materialize.js, Victory Charts, Firebase, Linux Ubuntu 19

YakYik

Social media platform that allows the user to post text as well as images

Role: Full Stack Software Developer

Responsibilities:

- Created feature branch to work on separate components within the application

- Applied mongoose and express.js on the backend to create endpoints that accept POST requests for image file uploads.
- implemented Bootstrap 3 designs on the front end and connected endpoints to design components

Environment: HTML5, CSS3, Javascript/ES7, React.js, MongoDB, Mongoose, Node.js, Express.js, Bootstrap, Surge, Linux Ubuntu 19

MovieAndTvFinder

A Movie/TV Application that shows details of contents such as biography and soundtrack

Role: Front End Software Developer/ DevOps Engineer

Responsibilities:

- Prototyped website layout using Figma and Ant design systems to construct workflow and user stories
- Connected endpoints to the TMDB (The Movie Database) to obtain list of specifically queried movie and TV shows
- Connected Spotify API to create custom query that connects the endpoints with title of the show its spotify soundtrack
- Implemented search functionality to query for titles within TMDB API
- Utilized Selenium for automated testing
- Deployed website using Docker with AWS EC2 instance

Environment: HTML5, CSS3, Typescript, React.js, Spotify API, TMDB API, Docker, Selenium, Ant Design

Professional Experience

R&D Technician III | Saint-Gobain Norpro | Stow, Ohio | March 2018 – March 2020

- Conducted research and development on catalytic carriers, a product used in the creation of various petrochemicals. Implemented constant cost reduction and optimization on several company products through formulation changes and experimentation.
- Worked in the catalytic wing of the lab, collaborated with a team of ~ 20 engineers and researchers on product experimentation and product methodologies.

Peer Advisor | Veteran Affairs | University of Akron, Ohio | August 2015 – May 2017

- Advised freshman veterans transitioning to academia. Conducted advisory based on field of study, primarily STEM. Assisted in VA processing for GI bill grants, and helped mentor and build campus community integration.
- Conducted continuous veteran outreach such as: interviewing and documenting ongoing college integration, Recommending STEM field majors based on academic interest or military expertise.

Construction Engineer | Ohio Army National Guard | Ravenna, Ohio | June 2009 – June 2015
Deployment to Kuwait | Veteran | October 2010 – August 2011

- Operated equipment for horizontal construction projects (road repair, concrete foundation recovery) for domestic improvement, as well as collaborative vertical construction projects (scaffolding, terrain leveling, sediment coring).
- Assisted in the development of blueprints and maps using AutoCAD and ArcGIS to survey, plan and implement construction projects (concrete missile platforms, offices, roads). Achieved through the operation of construction and surveying equipment such as total stations, GPS receivers, and Brunton compasses.

Education

General Assembly | Software Engineering Immersive Certification | Washington, D.C. | Jul 2020
 Completed 500+ hours of instructor led programming which includes data structures, and algorithms.

University of Akron | B.S. Geology | Akron, Ohio | May 2017 |

Conducted undergraduate research on shoreline erosion along Lake Erie, using surveying and data collection techniques to gather data and electronically map and create a timelapse of coastal transgression using ArcGIS.