Wanda L. McCrae

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Professional Summary and Objective

Strong experience with backend development using Python and SQL. Experience with front-end JavaScript frameworks, HTML, and CSS. Excellent communication skills and ability to work in a collaborative team environment, including cross-departmental communication. Currently leading the backend design for a Boston-based startup.

Key Career Highlights

- Leading the design and implementation of Tow Zone Alerts' backend architecture and account services API, fostering collaboration among team members to achieve a unified and effective solution using Docker, FastAPI/Python, and SQL Alchemy.
- Designed, implemented, and deployed Headline Editor to GitHub pages, allowing users to search the NY Times archives by year and month and edit the headline for the selected article.
- Designed, implemented, and shipped production software as an engineer for Lockheed Martin and Telephonics Corporations.

Technical Skills

Programming: Python 3, JavaScript ES6+, SQL, HTML5, CSS, Agile Methodology, Docker
System Design: Microservices, REST APIs, Domain-driven design, Monoliths, Message Passing, SaaS
Front-End: React.js, React Hooks, DOM Manipulation, Redux Toolkit, Bootstrap, Tailwind CSS, Chakra UI
Back-End: Django 4, JSON, FastAPI, PostgreSQL, RabbitMQ, Twilio, JSON Encoders

Programming Experience

Senior Hardware Engineer, Lockheed Martin (Syracuse, NY) and Telephonics (Farmingdale, NY)
- Designed, implemented, and shipped production software, which was deployed in air traffic control and military aircraft radar systems.
- Coded and ran unit tests to exercise production code.
- Participated regularly in code reviews.

Front End Developer, Headline Editor | wlmccrae.github.io/headline-editor-ghpage   2024 - present
- Deployed to GitHub pages, allowing users to search the NY Times archives by year and month and edit the headline for the selected article.
- Designed and styled the Single Page App using React.js, CSS, and Chakra UI.
- Integrated the NY Time archive API to receive articles for a given month based on user input.

Backend Web Developer, Tow Zone Alerts (Startup) | towzonealerts.com   2023 - present
- Leading the design of the backend architecture and account services API, fostering collaboration among team members to achieve a unified and effective solution.
- Collaboratively designing the FastAPI-based microservice with a PostgreSQL database used for user account creation, authentication, and maintenance.
- Utilizing GitHub and Docker containerization for development as part of a remote engineering team.
- Supporting React.js-based front end development as needed.

Front End Developer, Simple Weather | itstheweather.netlify.app   2023 - present
- Deployed to Netlify, allowing internet users to get the local weather for any USA city.
- Designed and styled the Single Page App using React.js and CSS.
- Integrated 3rd party API calls to retrieve date/time, location, and weather information based on user input.

FullStack Developer, ShapeShifters | gitlab.com/512kma/module3-project-gamma   2023
- Designed and styled the fitness meetup single page app using React with Redux Toolkit and Tailwind CSS.
- Utilized FastAPI to query a PostgreSQL database and call our RESTful API routes.
- Implemented a PostgreSQL database to allow authenticated users to create, read, update, and delete event information.

Frontend Web Developer, Lotusland Fine Art (Volunteer) | lotuslandfineart.com
- Developed and managed a multi-page fine art photography website using HTML and CSS.
- Enhanced site engagement by weekly blog post updates with meticulous coding, images, and CSS styling.
- Successfully transitioned the website to a self-hosted WordPress installation.

Other Experience

Software Engineering Immersive Resident, Galvanize (New York, NY) - Remote   2023
- Provide one-on-one and small group technical and project management support to students.
- Conduct code reviews on students' project work.
- Be present during class time to answer questions or provide support to instructors.
- Share observations on student progress with the Cohort Leads and instructors.

Education

Hack Reactor, Advanced Software Engineering Certificate   2023
Syracuse University, M.S. Computer Engineering
New Jersey Institute of Technology, B.S. Computer Engineering