Lauren M. Lattanzi

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OBJECTIVE: Seeking a full-time software position where I can leverage both my front-end and back-end development skills to enhance functionality of a product.

EXPERIENCE:

Software Engineer — **Sept 2022 – Present**

Ultralinq Healthcare Solutions — *Morrisville, North Carolina*

- Responsible for new feature development and bug fixes for both the front and back end of the web application.
- Part of a team focusing on converting much of the current PHP backend to a separate Kotlin application.
- Fixing bugs and addressing user concerns and new feature requests with existing PHP and HTML/JS legacy code.
- Restructured the legacy user auth process to facilitate AWS Cognito and SSO implementation.
- Following provided OpenAPI documentation and communicating with the UI developers to create REST APIs that suit their requirements and desired format.
- Building REST APIs in Kotlin with Spring Boot and JPA along with Hibernate and Javax validation. Writing unit tests in Spring Boot for all controllers and services.
- Working with AWS to upload and retrieve media files from S3 and debug various servers with CloudWatch.
- Following agile development practices with Jira, Confluence, and Bitbucket.

Full-stack Web Developer — **Aug 2022 – Oct 2022**

Paperless Fundraisers LLC — *Remote - Part Time Contracting*

- Developed front and back end features of an e-commerce website for fundraisers using TypeScript, Next.js, React, Redux, Prisma, Supabase, and Material UI.
- Created API routes and CRUD calls to communicate between the React side of the app and the database with information regarding sales, employees, customers, orders, products, and companies.
- Designed and implemented functional UIs for several pages in React with Material UI components for capturing user input and displaying data retrieved from internal and external APIs.

R&D Engineer — **Sept 2018 – Sept 2022**

Blur Product Development — *Cary, North Carolina*

- Owned the development of complex ostomy leak detection and notification algorithms in MATLAB for implementation in wearable medical device firmware.
- Leveraged OOP in MATLAB and interpreted firmware written in C to optimize code compatibility and conversion from the development/test environment in MATLAB to production firmware.
- Extensively tested the algorithms and associated mobile application in simulated use and V&V testing environments to bring the device to successful clinical trials.
- Solely responsible for processing and analyzing all data collected from the app and wearable device logs during clinical trials to assess product performance, study user behaviors, and identify issues/potential improvements.
- Worked closely with the app and firmware developers to communicate bugs, solutions, and functions necessary to interface with the algorithm.
- Used GitLab and GitKraken for source control and issue tracking.
- Followed agile development practices and project management using Jira.

PROJECTS:

Roam **July 2022 - Aug 2022**

- Created an interactive MERN stack single-page application that allows users to create trip itineraries with friends, split expenses, and offset carbon emissions.
- Leveraged Apollo GraphQL with an Express.js server and Mongoose ODM to query and manipulate a MongoDB database containing user, trip, and expense data.
- Implemented a carbon offsetting feature where users can donate to a variety of charities using Stripe API to complete payments.
- Built a responsive front end using React, Material UI, and custom CSS.
- Incorporated user authentication middleware using JWT to selectively limit site experience to logged in users and protect API routes.

Twitcher **May 2022**

- Built a full stack web app to serve as a bird watching blog for the local community.
- Developed the back-end in Node.js following OOP and the MVC paradigm with the use of Express, MySQL, and Sequelize ORM.
- Created a front-end with Materialize CSS framework, HTML generated with handlebars.js, and JavaScript for event handlers and requests to internal APIs.
- Created RESTful web APIs in Node.js to get, edit, delete and add blog posts, comments, and users stored in a SQL database which were tested using Insomnia.
- Implemented user authentication with password hashing to protect API routes.

EDUCATION:

NC State University and UNC Chapel Hill **May 2018**
B.S., Biomedical and Health Sciences Engineering GPA: 3.7

Full Stack Coding Bootcamp **February 2022 – July 2022**
UNC Chapel Hill Grade: 100

Completed an intensive coding program that teaches industry leading front end and back end technologies to become a full stack web developer. The program focuses on the following topics:

- JavaScript computer science - algorithms and data structures
- Browser-based technologies - HTML/CSS, jQuery, responsive design, bootstrap, handlebars, local and session storage, indexedDB, and React
- Databases - MySQL, MongoDB, NoSQL, and Apollo-GraphQL
- Server side development - User auth, PWAs, and MERN stack
- API interaction - CRUD methods, RESTful development

LANGUAGES: JavaScript, TypeScript, PHP, Kotlin, HTML, CSS, MATLAB

TECHNICAL SKILLS: Spring Boot, Java Persistence API, Node.js, Next.js, React, Redux, MongoDB, Express.js, Apollo-GraphQL, SQL, jQuery, Responsive Design, AWS, Unit Testing, Hibernate and Javax validation, IntelliJ IDEA, VS Code, DataGrip, Docker, Git, Atlassian Stack, Agile Development