Lauren M. Lattanzi

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OBJECTIVE:

Seeking a full-time software development role to leverage my expertise in full-stack web development, driving product innovation and enhancing user experience.

EXPERIENCE:

Senior Software Engineer   **Jan 2024 – Present**
Software Engineer   **Sept 2022 – Jan 2024**
Ultralinq Healthcare Solutions   *Morrisville, North Carolina*

- Responsible for new feature development and bug fixes for the full-stack of a cloud-based web application that provides clinicians access to medical images, DICOM viewer, patient data and reporting tools.
- Lead developer on a project implementing a full redesign of the entire web app, including converting the outdated frontend (PHP, HTML, YUI, JavaScript) to a modern React TypeScript architecture and integrating a new Kotlin backend with Spring Boot JPA to replace the existing PHP backend.
- Implementing Figma designs provided by design contractors in React with Chakra UI, while also creating original designs for additional features and pages.
- Frequently communicating with management and QA to clarify design intent, discuss roadblocks and feature improvements, and present weekly updates with live demos.
- Developing REST API routes in Kotlin with Spring Boot and JPA along with Hibernate and Javax validation for handling requests from the React UI.
- Integrated third-party AI technology for processing and interpreting ultrasound images by creating API routes in Kotlin for streaming DICOM and JSON data and displaying results in a viewer built in Angular.
- Ensuring appropriate test coverage with Jest and Cypress for the frontend and Spring MVC Tests for the backend unit tests, while also utilizing Postman for testing API routes.
- Assisting in the integration of AWS services, including authentication with Cognito, SSO, and MFA, and media file upload and retrieval with S3.
- Utilizing AWS for investigating, diagnosing, and resolving build deployment and ECS errors following PR merges. Monitoring the status and health of code pipelines and deployment builds, while debugging errors via CloudWatch container logs in staging and production environments and communicating relevant findings to the DevOps team.
- Using DataGrip along with Tunnelblick VPN to view and interact with MySQL databases for all testing and production environments. Writing SQL for querying specific customer information and updating or creating new tables.
- Following agile development practices with regular team standup meetings and utilizing Jira, Confluence, and Bitbucket.

- Responsible for the creation and management of Jira tickets for frontend and backend features/issues, assigning tasks to the appropriate team members, and providing guidance to junior developers.

Full-stack Web Developer   Aug 2022 – Oct 2022
Paperless Fundraisers LLC   *Remote - Part Time Contracting*

- Developed frontend and backend features of an e-commerce website for managing fundraisers using TypeScript, React, Redux, Next.js, Prisma, Supabase, and Material UI.
- Created REST APIs in Next.js using Prisma ORM to manage sales, employees, customers, orders, products, and companies stored in a Supabase database.
- Designed and built responsive React pages using Material UI and CSS.

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.
- Applied OOP in MATLAB and interpreted C firmware to optimize code compatibility and transition from the development/test environment in MATLAB to production firmware.
- Extensively tested the algorithms and associated mobile application with simulated use and V&V testing protocols to prepare for 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 algorithms.
- Used GitLab and GitKraken for source control and issue tracking.
- Followed agile development practices and project management using Jira.

PROJECTS:

Roam   July 2022 – August 2022

- Created an interactive MERN stack single-page application that allows users to create trip itineraries with friends, split expenses, and offset carbon emissions.
- Developed a Node.js backend with Apollo GraphQL and Express.js, integrating Mongoose ODM to efficiently query and manipulate a MongoDB database managing user, trip, and expense data.
- Built a responsive frontend using React, Material UI, and CSS.
- Integrated JWT authentication middleware to restrict site access and protect API routes.

Twitcher   May 2022
- Developed a full-stack web app to serve as a bird watching blog for the local community.
- Built the backend in Node.js following OOP and MVC principles with the use of Express.js, MySQL database, and Sequelize ORM.

- Designed the frontend with Materialize CSS, Handlebars.js, and JavaScript for event handling and API requests.
- Created RESTful APIs to manage blog posts, comments, and users in a SQL database.
- Tested and validated API endpoints with Insomnia.

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

FRONT-END SKILLS:

JavaScript, TypeScript, React, Redux, Axios, Jest Testing, Next.js, jQuery, HTML, CSS, Chakra UI, Material UI, Ant Design, Bootstrap, Handlebars, YUI Library, Responsive Design, Figma, Adobe Express, Adobe Illustrator

BACK-END SKILLS:

REST API Development, Kotlin, Spring Boot, Java Persistence API, Hibernate and Javax validation, PHP, SQL, Database Management, Node.js, Unit Testing, Model-Repository-Controller-Service Architecture, DICOM and JSON data processing, AWS SDK Integration, Algorithm Development, Apollo-GraphQL

DEVELOPMENT TOOLS & PLATFORMS:

VS Code, IntelliJ IDEA, DataGrip, Postman, Docker, Bitbucket, Jira, Confluence, GitKraken, GitHub, CLI, Agile Development, AWS (S3, IAM, ECS, CloudWatch, CodeDeploy, Systems Manager)