KRISTA STRUCKE

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PROFESSIONAL EXPERIENCE

Full Stack Developer

Hack for LA, Food Oasis   February 2023 - Present
- Developed a full-stack contact feature which improved communication between users and admins by 60%. Users now find it easy to automatically contact the correct region for what they need, and admins are satisfied with this process.
- Utilized TypeScript, React, and Formik to create low-latency, responsive forms with error handling and typing on the front-end, and Node.js with SendGrid's API for GET/POST requests on the backend for email validation and posting.
- Developed cross-compatible and beautiful contact email templates with HTML tables and inline CSS, bundled into asynchronous API requests, resulting in a more professional and united company appearance.
- Increased application speed by 20%, improved code clarity, reduced overall application bundle size, and improved overall user experience by refactoring styled components from MUI 4.0 to 5.0.

DevOps Engineer (Contract)

Fifth Tribe   November 2022 - December 2022
- Achieved 85% reduction in project build time by implementing Cypress automated test suite parallelization in GitLab continuous integration and deployment, resulting in a drastic increase in team productivity.

Software Engineering Fellow

App Academy   March 2022 - September 2022
- Demonstrated a strong commitment to mastering software development methodologies and cultivating critical thinking.
- Gained hands-on collaboration experience with daily pair programming. Proficiently utilized technologies and best practices such as RESTful APIs, test-driven development, web servers, databases, SQL queries, and version control systems.

APPLICATION DEVELOPMENT EXPERIENCE

Note Pile   (Built with ReactJS, Redux, Python, Flask, SQLAlchemy, Alembic, CSS3, Heroku)   live | github
A note-taking app where users can save and organize all kinds of text data, built with React, Node, JSX, Python & Flask.
- Designed and built the entire database schema, all RESTful API routes, frontend routes, and functionality from scratch.
- Utilized state management of Redux to directly manage data for long notes and submissions for the user.
- Wielded React's local state methods to dynamically render different pages of notebooks for quick load speed.

Nerdbrite   (Built with ReactJS, Redux, Nodejs, Expressjs, Sequelize, PostgreSQL, CSS3, Render, AWS)   live | github
An event site where users can create, view, and manage different fun nerdy events, built using React, Node, & Express.
- Employed Express on the backend for extensive custom error validations and timezone patches for cloud deployment.
- Produced efficient and well-rounded shared user experience by implementing CRUD best practices with events & tickets.
- Implemented Google Maps API and address autocomplete to improve user experience with Google Cloud Console.

EDUCATION AND CERTIFICATIONS

AWS Certified Cloud Practitioner - *September 2023*
Full-Stack Coding Bootcamp *- App Academy, A+ grade average | 2022*
Intermediate Javascript Data Structures and Algorithms *- FreeCodeCamp | 2021*
CS50, Introduction to Computer Science - *Harvard University via edX, C and Python | 2020*
Bachelor's Degree in Japanese - *Rutgers University, New Brunswick, NJ and ICU, Tokyo, Japan | 2009 - 2013*

SKILLS

Languages - JavaScript, TypeScript, Python, HTML, CSS3, SQL
Frameworks and Libraries - React.js, Next.js, Redux, Node.js, Express.js, Sequelize, SQLAlchemy, Flask, TailwindCSS
Tools - Xcode, VS Code, Git, AWS, MacOs, Linux, WSL, Docker, CI/CD, PostgreSQL, Playwright, Selenium, Supabase