Siddhi Kasera
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EDUCATION

Virginia Tech
Master of Engineering in Computer Science **GPA: 3.90** | Expected: May 2025
Courses: Software Engineering, Web Development, Introduction to Software Management
Rutgers University, New Brunswick, NJ
Bachelor of Science in **Major** Computer Science | May 2021
Minor: Business Administration
Courses: Software Methodology, Introduction to Artificial Intelligence, Designing and Analyzing Algorithms, Databases, Data Structures

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C
Web Development Tools: React, HTML, CSS, MySQL, Material UI, Figma, Formik, NodeJS, ExpressJS.
Other: Android Studio, JavaFX, Agile Software Development, Scrum, Kanban, Notion, Git.

PROFESSIONAL CERTIFICATES

AWS Cloud Practitioner   IBM Data Warehouse: Introduction to Data Engineering   Google Certificate: Prepare Data for Exploration

TECHNICAL PROJECTS

Stocks Portfolio Management Platform - TradeMinds Playground (JavaScript, React, Material UI, SDLC, Agile, Git, ExpressJS, NodeJS)
Developed and implemented a comprehensive financial management platform to provide users with actionable insights and recommendations for top-gaining stocks. The platform facilitates informed decision-making, portfolio diversification, and the maintenance of a balanced and profitable investment portfolio.

- Set up the backend server using Express/NodeJS and the frontend workspace structure using ReactJS.
- Developed the sign-in and registration pages using React component library Material UI, integrating Formik for seamless validation of user inputs.
- Integrated Autocomplete search for stocks, implemented consistent Watchlist display and established seamless frontend navigation using react-router-dom for an enhanced user experience.
- Configured the database, including MySQL models and table relationships.
- Implemented RESTful APIs for user functionalities such as login, signup, and user watchlist.
- Deployed frontend on Amplify CI/CD and the backend on AWS RDS.
- Integrated Toastify popups for the sign-in and registration pages.
- Collaborated in adhering to the Git version control workflow, creating and merging pull requests to maintain a clean and organized codebase.
- Utilized Notion to streamline and enhance Agile development practices, optimizing collaboration and project management efficiencies throughout the SDLC.

Online BookStore Web Application (TypeScript, React, MySQL)
Created and executed an online bookstore platform, allowing users to purchase books from an extensive collection.

- Designed the application interface using Figma, prioritizing user-centric design principles.
- Developed a single-page application with React, employing the useState hook for efficient state management.
- Utilized the useEffect hook to orchestrate Axios calls, ensuring seamless retrieval of information from the API.
- Implemented a streamlined data flow between components through the useContext hook for enhanced information transfer.
- Leveraged the useReducer hook to establish a structured approach for storing and updating states.
- Created and managed a MySQL database to support robust data storage and retrieval for the application.
- Enforced both server-side and client-side validations to ensure the integrity and security of transaction processes within the application.

TECHNICAL EXPERIENCE

Software Engineering Intern *at* **Crohn's and Colitis Foundation | September 2021 – March 2022**

- Collaborated on deploying an AWS-supported application for Crohn's and Colitis disease research.
- Contributed in outlining the components, architecture, and infrastructure for the Solution Architecture Document and Infrastructure Master Document.
- Collaborated closely with project managers and fellow engineers to ensure timely completion of the project.
- Led the design of an efficient management tool, and a website to streamline project tracking to increase team productivity and collaboration.

Java Production Support *at* **Genpact | April 2022 – January 2023**

- Managed updates for web application clients using Rational Application Developer (IDE).
- Implemented an efficient logging mechanism using Log4j for log generation in Java and Javascript.
- Successfully integrated branding changes via Java and JavaScript enhancements for clients like CVS.
- Collaborated with QA and backend teams for test case designs.

LEADERSHIP EXPERIENCE

Peer Tutor and Mentor, **Tech Array Advancing Women in Computer Science**, **New Brunswick, NJ | January 2021 – May 2021**

- Tutored and mentored students in Java for Introduction to Computer Science and Data Structures.
- Organized and conducted instructional workshops covering various technologies like Flask, React, and Django.
- Guided students in troubleshooting, debugging code issues, fostering skill development, and project success.
- Oversaw and maintained effective communication with the division executive board ensuring smooth operations and collaboration including a comprehensive budget plan to sustain and enhance workshop quality and availability.