NEHA AGRAWAL

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SUMMARY

Accomplished software engineer with 5+ years of experience and a strong foundation in financial and healthcare industry. Expertise in full-stack development, cloud computing, and data analysis, with a focus on performant, scalable and efficient system design.

EXPERIENCE

Senior Software Engineer, CitiusTech   September 2021-June 2023

- Led development of patient module using React functional components, Hooks, Redux, and Context APIs, enhancing user experience by 25% through efficient state management and selective rendering
- Integrated frontend with RESTful APIs with Node.js, Express.js, Typescript and MongoDB, optimizing CRUD operations and boosting data querying efficiency by 20%
- Employed authentication and authorization using JWT and OAuth for secure access control
- Executed Test Driven Development, achieving 90% code coverage using Jest and Enzyme, leading to enhanced performance
- Implemented scheduler with real-time physician availability, increasing appointment booking efficiency by 20%
- Developed interactive dashboards for patients, physicians, and admins using React and PostgreSQL, improving reporting efficiency by 10% and user satisfaction by 20%
- Configured Babel for JavaScript transpilation and Webpack for module bundling, enhancing code performance
- Advocated for modular design in peer code reviews, reducing system coupling by approximately 12%
- Created CI/CD pipelines in Jenkins, accelerating deployment speed by 25% and ensuring zero downtime

System Engineer, Tata Consultancy Services   July 2017-September 2021

- Built and deployed an Angular-based banking application for an Indian client with 60M users, increasing session duration by 10%.
- Implemented micro frontend architecture with MERN stack, boosting single-page application performance by 15%
- Led the migration of a legacy web application to a microservices architecture with added features including cart, shop, and checkout functionalities using JavaScript, HTML, CSS, SAAS, and LESS for US toy manufacturing client increasing scalability and user engagement by 15%
- Developed re-usable UI components /widgets for different calculator modules using JavaScript, and Backbase CMS
- Utilized optimization techniques such as lazy-loading, minification, image caching, image splitting, and SEO, improving application performance by 20%
- Employed JS best practices (CORS), handling cross-browser compatibility and responsive design for consistent UX across platforms
- Mentored four junior front-end developers in building JavaScript UI components to expand application capabilities, leading to on-schedule development, and adherence to software best practices in an agile lifecycle

PROJECT EXPERIENCE

Gourmet Glide, Food-Delivery App (GitHub Repo)   May 2024

- Developed a real-time food delivery app using Swiggy's API, enhancing user experience with React and Tailwind CSS
- Utilized React Hooks, Redux, HMR, caching, image optimization, and code splitting for performance and usability improvements

Medicare Patient Analysis, Primary Care IPA, **NY**   August 2023-December 2023

- Reduced treatment costs by 15% by identifying cost-effective alternatives, aligning with Triple Aim goals
- Managed HIPAA-compliant data processing of 4.2M datasets using Pandas and SQL, analyzed data with Tableau for 50K+ members

EDUCATION

Master of Science, Management Information Systems (GPA: 3.9/4.0) | University at Buffalo **|** Buffalo, NY   June 2024
Relevant Courses: System Analysis and Design, Database Management System, Cloud Computing – AWS**,** Distributed Computing and Big Data, Data Warehousing, Health Care Analytics, Web Analytics - Google Analytics, IT Risk Management – CRISC aligned

Bachelor of Engineering, **Electronics and Telecommunications |** Dr. Babasaheb Ambedkar Marathwada University **|** India   May 2017

TECHNICAL SKILLS

Languages	**:** JavaScript, Python, SQL
Web Technologies	**:** HTML, CSS3, React, Next.js, TypeScript, Redux, Node.js, Express.js, jQuery, Bootstrap, Tailwind, ES6,
Testing	**:** Jest, Enzyme
Database	**:** PostgreSQL, Oracle, MySQL, MongoDB
Data Analytics Tools	**:** Tableau, SAS Studio, Talend Open Studio, Snowflake, OpenRefine, Orange Data Mining
Software Tools	**:** Jira, Git, Gitlab, Firebase, Backbase, Drupal, IntelliJ, Visual Studio, Postman, Bitbucket, AWS Cloud services, Hadoop, Google Tag Manager, Google Analytics, Canva, Figma

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C02) March 2024; Microsoft Certified: Azure Data Fundamentals (DP-900) January 2024; Google Analytics Certification April 2024; Badges by Tableau and Snowflake September 2023