Pushpalatha Bandapu

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 Portfolio

SUMMARY

Skilled software engineer with 3+ years in MERN stack (MongoDB, Express.js, React.js, Node.js) and SQL databases (MySQL, PostgreSQL). Proven track record in building scalable web applications, optimizing performance, and crafting responsive UIs using JavaScript, TypeScript, HTML, and CSS. Strong collaborator with a commitment to continuous learning and industry best practices.

TECHNICAL SKILLS

MongoDB, Express.js, React.js, Node.js, HTML5, CSS3, JavaScript (ES6+), Webpack, Babel, Redux, Bootstrap, Material-UI, RESTful APIs, JSON, AJAX, GraphQL, OAuth2, JWT, Docker, Kubernetes, Jenkins, GitHub Actions, AWS (EC2, S3, Lambda, RDS), Azure, CI/CD, Git, Unix, MVC, MVVM, Postman, Jest, Mocha, Chai, VS Code, MySQL, NoSOI.

EXPERIENCE

Research Developer

University of Houston

May 2022 - May 2024, Houston, TX

- Developed and maintained web applications using Node.js, Express.js, and SQL databases (MySQL, PostgreSQL) to assist students and faculty in
 managing schedules, course materials, and communications. Ensured applications were user-friendly and accessible, providing a smooth experience
 for users with varying technical skills.
- Created interactive tools and resources using **React.js** and **JavaScript** to support students' learning experiences. This included developing quiz platforms, flashcards, and study aids that faculty could easily customize and deploy for their courses, helping enhance the overall educational process.
- Assisted in the development of basic data collection forms and surveys using the MERN stack to gather feedback from students and faculty. Implemented simple data visualization features to help faculty analyze survey results and make informed decisions about course content and teaching methods.

Software Engineer

Infoville Solutions

Aug 2018 - Jan 2022, Bangalore, India

- Dashboard and Data Collection Analyzed, monitored, and implemented real-time dashboards. Developed interactive data collection systems using component and template-based views in Django, leveraging the MERN stack for robust, scalable solutions.
- Frontend Optimization Optimized performance using React, Material-UI, and Tailwind CSS for efficient, responsive design. Leveraged Redux for state management and GraphQL for improved data fetching efficiency.
- Database Management Developed and maintained SQL and PostgreSQL databases, ensuring data integrity and optimizing query performance. Utilized Node.js and Express.js for backend development, integrating RESTful APIs to support frontend functionalities.
- Process Automation Automated and optimized processes in the Claims Management application using Node.js, Express.js, and Next.js, reducing manual OA tester hours by 36% and bug identification time by 40%.
- User Interface Enhancement Enhanced UI features and developed dynamic, interactive interfaces with React and Next.js, resulting in a 65% increase in user satisfaction, as measured by surveys.
- Authentication and Version Control Implemented JWT for authentication and maintained version control with Git. Proficient in Azure services including Service Fabric, Search, Functions, and DevOps. Strong advocate for Agile methodologies like Scrum and Kanban, emphasizing effective communication and documentation.

PROJECTS

React Trading Dashboard

Live Demo

Project Description: Developed a comprehensive trading dashboard using **React** to visualize financial data and facilitate spot trading. The application includes dynamic data visualization, **user authentication**, and **currency rate tracking**.

• User Interface and Integration: Developed a responsive, user-friendly interface using React and Material-UI, incorporating dark mode for enhanced user experience. Utilized Context API for state management and integrated external APIs to fetch real-time currency exchange rates, ensuring a seamless user experience with features like user authentication (OAuth2, JWT) and smooth routing (React Router). Implemented dynamic data visualization using Chart.js, optimizing component rendering and employing Reacts lazy loading to enhance performance. Ensured the application's reliability through comprehensive unit and integration testing with Jest. Deployed the application on cloud platforms, ensuring scalability and accessibility, and integrated robust user login functionality.

Environment: JavaScript, React.js, Node.js, Material-UI, Chart.js, React Router, Context API, Axios, Jest, npm, Git, Netlify.

Paytm Clone: Responsive Payment Application

Live Demo

Project Description: Developed a highly responsive clone of the Paytm website using modern web technologies. This project focuses on replicating the **UI/UX** and core functionalities of the **Paytm app**, providing features for payments, recharges, and financial services.

• User Interface and Integration: Implemented a user-friendly and responsive interface using HTML, CSS, and Tailwind CSS, creating reusable and maintainable components for various sections of the application. Ensured full responsiveness across different devices and screen sizes, developed seamless navigation and routing, and simulated payment gateways and financial transactions. Managed data flow and state using modern JavaScript techniques, added subtle animations and transitions to enhance the user experience, conducted thorough testing to ensure cross-browser compatibility and responsiveness, and deployed the application on Netlify for public access and testing.

Environment: JavaScript, React.js, Node.js, Material-UI, Chart.js, React Router, Context API, Axios, Jest, npm, Git, Netlify.

EDUCATION

Masters in Computer Science