Allan Michael Shivji

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WORK EXPERIENCE

SOFTWARE DEVELOPER | Aggio, LLC - St. Louis, MO   **August 2020 - Present**

- Developed scalable full-stack application using React, TypeScript, Material-UI, and Redux, ensuring high performance and seamless user experiences for the poultry and veterinary industries.
- Architected and implemented micro frontend-based UI, enabling modular and maintainable application structures.
- Optimized API performance by designing and improving GraphQL endpoints, reducing response times by 35%, and facilitating efficient data handling for specimen processing and test result retrieval.
- Created Python scripts to automate billing reports using Apache Airflow, streamlining internal processes and reducing manual workload.
- Enhanced web accessibility (WCAG compliance) and performance optimization for front-end applications, ensuring inclusivity and usability.
- Designed and maintained secure JWT-based cookie authentication mechanisms, delivering a frictionless and secure user experience.
- Built dynamic forms with real-time validation, PDF generation, and notification systems, improving workflows for diagnostic labs and poultry producers.
- Led unit and integration testing using Jest, Cypress, and React Testing Library, ensuring high-quality code and reducing bugs by 40%.
- Collaborated with cross-functional Agile teams, participating in sprint planning, code reviews, and grooming sessions to ensure timely delivery of high-quality features.
- Built and optimized database interactions using PostgreSQL, improving query performance and retrieval efficiency.
- Deployed applications on Google Cloud Platform (GCP) using App Engine and Compute Engine.
- Mentored junior developers, conducted code reviews, and provided technical guidance, fostering growth within the development team.

SOFTWARE SPECIALIST | eClinicalWorks - Westborough, MA   **June 2017 - July 2018**

- Developed front-end features using JavaScript, HTML5 and CSS3, improving the usability of software for US hospitals and medical practitioners.
- Customized and optimized complex database queries in MySQL, enabling efficient data retrieval for thousands of patient records.
- Resolved server-side issues using Node.js, ensuring smooth system functionality and reduced downtime.
- Conducted thorough software testing using Chai and Mocha, enhancing code reliability and performance.

PROJECTS

Ask Overflow: Developed a Q&A web app using React, Webpack, Node.js, Express.js, MongoDB, NoSQL Redis DB, and Firebase Authentication, allowing users to post and answer technical questions. Collaborated with a team to create a responsive UI and optimized backend performance with Redis caching.

Food Diaries: Built a recipe-sharing platform with a dynamic user interface using Node.js, Express.js, and MongoDB. Collaborated with a team to handle CRUD operations and design a scalable backend architecture for seamless user interaction.

Data Visualization using Bar Chart: Developed an interactive bar chart with D3.js to visualize USD vs. INR growth (1947–2018), incorporating hover effects for detailed insights and enhancing data comprehension.

Mail Me Meeting: Developed a meeting transcription tool using Node.js, Angular.js, and IBM Watson Speech-to-Text API, enabling real-time transcription and email delivery of meeting notes to participants.

SaveIT (Intelligent Savings Tracker): Built a savings tracker with a clean UI and dynamic display features to help users manage their savings and expenses effectively.

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, Java
Frontend Development: React.js, Redux, Redux Saga, Material-UI, HTML, CSS/SASS, Webpack, Bootstrap, D3.js
Backend Development: Node.js, Express.js, REST APIs, GraphQL, Handlebars.js
Database Systems: PostgreSQL, MySQL, SQL, Redis, MongoDB
Other: Git, BitBucket, Jest, Cypress, Chai, Mocha, Google Cloud Platform (GCP), Agile, CI/CD pipelines

EDUCATION

Master of Science, Computer Science | Stevens Institute of Technology, Hoboken NJ (May 2020) | GPA: 3.93
Bachelor of Science, Computer Science | University of Mumbai, Mumbai India (May 2017) | GPA: 3.20