Sampath Chowdary Gundapuneni

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CAREER OBJECTIVE

Experienced full-stack developer with a 4+ year track record of crafting scalable solutions aligned with company goals. Dedicated to enhancing team success and improving user experiences through innovation and collaboration.

EDUCATION

- **University of Houston Clear Lake** — Houston, TX
  Master of Science in Computer Science; GPA: 3.5 — *Jan. 2022 – Dec. 2023*

- **Gayatri Vidya Parishad College of Engineering** — Visakhapatnam, India
  Bachelor of Engineering in Information Techonology; GPA: 3.6 — *Aug. 2014 – May. 2018*

SKILLS

- **Backend Development**: Golang, Java, Python, NodeJS, Spring Boot, SQL, PostgreSQL

- **Web Development**: ReactJS, Redux, VueJS, Vuex, MobX, HTML, CSS, SCSS, Material-UI, TypeScript, Javascript, React Native, jest, Jasmine, Mocha

- **Others**: Git, GraphQL, Machine Learning, Jenkins, swagger, Docker, Sonarqube, Splunk, Elastic Search, Micro Services, Jira, Agile

- **Cloud Technologies**: AWS, Microsoft Azure, GCP

EXPERIENCE

- **University of Houston Clear Lake** — Houston, TX
  Teaching Assistant — *Aug 2022 - Dec 2023*
  - **Mentored and guided 150+ students** in Advanced Java, Database Management Systems, and Modern Software Design Patterns, providing comprehensive understanding and facilitating project completion.
  - Collaborated closely with professors, providing indispensable assistance in achieving academic objectives, resulting in 100% course completion.

- **University of Houston Clear Lake** — Houston, TX
  Research Assistant — *Jan 2022 - Jul 2022*
  - Performed in-depth research on blockchain technology, resulting in the publication of two papers and a comprehensive understanding of its security principles and decentralized nature.
  - Researched and analyzed the multi-billion dollar **global counterfeit medication problem**, revealing its ties to supply chain gaps and highlighting the significance of information-sharing issues between manufacturers, distributors, and regulatory bodies, resulting in compromised product traceability and oversight.
  - Proposed a **blockchain-based system to enhance the pharmaceutical supply chain**, with a focus on greater **traceability, visibility, and security**.
  - Conducted a thorough examination of how blockchain can safeguard digital identities through multiple consensus processes, smart contracts, and enhanced storage systems, emphasizing privacy, security, and technological advancements in this domain.
  - Explored the potential of blockchain-based solutions in addressing crucial concerns, including **identity management, privacy, and security**, with a particular emphasis on **self-sovereign identity** concepts to empower individuals with better data ownership and control.

- **EagleView** — Bangalore, India
  Software Engineer 2 — *Apr 2021 - Dec 2021*
  - Demonstrated proficiency in contributing across all phases of the **software development life cycle**, from **requirements gathering and design to implementation, testing, and deployment, ensuring successful delivery** of high-quality software solutions.
  - Conceived and developed over **40 APIs** utilizing **REST architecture** to augment application capabilities.

- Integrated **AWS services (SNS, Batch, S3)** to enhance application capabilities.
- **Identified and optimized performance bottlenecks**resulting in a **15% increase** in database query efficiency.
- Orchestrated numerous production deployments through the **Jenkins CI/CD pipeline and Git version control**, ensuring a **99.5% error-free** release rate.
- Proficient in **JavaScript with modern ES6+** syntax and extensive **React.js** experience, including core principles like components and state management.
- Exceptionally proficient in utilizing widely-adopted **state management** library such as **Redux**, heightening application stability and performance.
- Engineered **reusable React components** that adeptly manage images up to **400k**, optimizing load times by **30%**.
- Strong **troubleshooting and debugging** abilities, ensuring effective issue resolution in React.js applications.
- Adhered to **best practices and coding standards**, resulting in fewer **code review comments** and more efficient code.
- Achieved a **90% test coverage with Jest** for comprehensive unit and integration testing.
- Enhanced website performance by implementing **image prefetching using web workers and domain shredding, enabling efficient caching and parallel requests** which improved image loading by **80%**.
- Proficient in **Vue.js**, leveraging its reactivity and component-based architecture to develop interactive and responsive user interfaces.
- Extensive experience in **Vuex**, effectively managing state and data flow within Vue.js applications, resulting in scalable and maintainable codebases.
- Skilled in **testing web page performances** using various tools and techniques to optimize loading times and enhance user experience.
- **Implementing pagination on both the UI and API**, enhancing user experience, and optimizing data retrieval efficiency for large datasets in web applications.
- Actively fostered collaborative **teamwork, mentoring 3 new team members**, leading to a 20% reduction in onboarding time.
- Demonstrated expertise in **code refactoring and continuous improvements, identifying 10 areas for enhancement** and implementing efficient solutions to elevate code quality, maintainability, and overall application performance.

- **Tata Consultancy Services** — Banglore, India
  Assistant System Engineer Trainee — *Jun 2018 - Aug 2019*
  - Expertise in pioneering **chatbots using Dialogflow, Azure, AWS Lex, IBM Watson, and TensorFlow.**
  - Successfully built a proof-of-concept chatbot using TensorFlow.
  - Skilled in implementing static and responsive functions to enhance chatbot functionality.

- **Freelance Achivements**
  - Designed a sophisticated **tiered loyalty program** that significantly elevated customer engagement and segmentation through strategic purchase-based incentives, boosting customer retention and sales revenue.
  - Orchestrated personalized loyalty programs, including targeted offers, discounts tied to loyalty tiers, and exclusive birthday rewards. Introduced special offers and a review feature, optimizing customer interactions and collecting valuable feedback, resulting in elevated customer satisfaction and a 15% increase in positive reviews and feedback
  - Utilized **GraphQL** for customized responses and integrated **MobX** for effective state management, ensuring streamlined backend operations.
  - Mastering **React Native**, I specialize in crafting cross-platform mobile applications known for their polished user interfaces, responsive functionality, and streamlined API integrations.
  - Proven ability in creating and deploying **reusable components**, as well as a solid understanding of API connections, to aid in the creation of **scalable and efficient** systems.
  - Exhibited exceptional troubleshooting skills in enhancing React Native apps through debugging, testing, and implementing screens, components, and APIs, while attaining **100% code coverage**.

Projects

- **Credit Card Fraud Detection System**: Developed a hybrid framework using Python and machine learning, seamlessly integrating multiple detection algorithms with big data technologies to achieve high accuracy and scalability.

- **My Cart - Online retail**: E-commerce website for a retail store to handle operations related to both Customer and Retailer.