Sri Ganesha Satya

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Education

Wichita State University	Wichita, USA
Masters in Computer Science; GPA: 4.0/4.0	*January 2023 – May 2024*
Jawaharlal Nehru Technological University Kakinada (JNTUK)	Kakinada, India
Bachelors – Computer Science, CGPA: 9.1/10.00	*August 2015 – May 2019*

Technical Skills

Programming: Java (**Oracle Certified Java Programmer**), C/C++, Python, JavaScript, TypeScript, Kotlin, HTML/CSS

Database: PostgreSQL, MongoDB, MySql, Firebase, T-SQL, Azure, AWS (**AWS Certified Cloud Practitioner**)

Development: Microservices, Spring Boot, Android Development, Express.js, Node.js, ReactJS, Material-UI, Hadoop

Dev Tools: Git, JMeter, CI/CD, Docker, Agile, SCRUM, JIRA, VS Code, IntelliJ, Eclipse, Linux

Others: Data Structures and Algorithms, Parallel Algorithms, Object Oriented Design, Design Patterns, MPI, Open MP

Internship Experience

Microsoft   May 2023 – August 2023
Software Developer Intern   *Redmond, WA*

- Reverse-engineers a VB6 application, documents its business logic, and migrates it to a new system using Vue.js and ASP.NET Core with RESTful APIs, increasing operational speed by 80%.
- Utilizes Entity Framework for ETL processes, optimizing data retrieval from a MS SQL database to load 300,000 rows in under one second, improving load times by 10x.
- Develops unit tests and contributes to weekly development meetings to enhance project collaboration and code quality.

Google   April 2018 – July 2018
Software Engineer Intern   *Bangalore, India*

- Utilized Java and Selenium WebDriver to design and execute automation scripts to increase efficiency and streamline the software development process for web applications with a user base of 10,000 users.
- Automated daily build deployments and reduced process times by 30% while increasing test coverage by 20%.
- Developed a software framework for weekly execution of 50+ regression tests, ensuring code stability post-updates.
- Conducted Jenkins-based code reviews and CI/CD for quality releases and efficient deployments.

Work Experience

Apple   August 2020 – December 2022
Software Development Engineer   *Bangalore, India*

- Developed scalable backend microservices with **Node.js**, **Express.js**, **TypeScript**, and **MongoDB** for the provider matchmaking system, optimizing the customer experience.
- Reduced critical **API** response times for the slot capacity service, achieving **P99** and **P95** times under **150ms** and **50ms**, respectively, down from around **350ms** and **150ms**.
- Migrated native Provider Android App screens to **React Native** using the in-house Orion framework, ensuring consistent UX across **Android** and **iOS** platforms, reducing deployment wait time by **45%**.
- Developed graph-based algorithms within slot aggregator service, utilizing **SpringBoot**, to identify single points of failure in UI-connected components. Leveraged event-driven architecture (**Kafka**) to streamline user actions, resulting in a **70%** reduction of vulnerable components.
- Engineered a dashboard for configuring provider calendar metrics at the city level, enabling informed business decisions. Integrated **Airflow** workflow to populate **1M** data points in MongoDB for the dashboard.
- Implemented the Festival Management System (FMS) feature and seamlessly integrated it into the provider **Android (Java/Kotlin)/iOS** app and backend services. This enhancement enabled accurate prediction of provider availability during festive or holiday seasons, resulting in an **85%** reduction in no-shows. This contribution significantly improved customer service and business operations.
- Automated the existing microservices deployment process by integrating services into the **CI/CD** deployment pipeline, leading to an impressive **84%** boost in deployment efficiency. Leveraged **Jenkins**, **Jira**, and **GitLab** to successfully achieve this milestone.

Projects

Project Enigma | *PostgreSQL, Node.js, TypeScript, ReactJs, Git*

- Designed and developed Wichita's groundbreaking home services web app using React for frontend development and **Node.js** with **PostgreSQL** for scalable backend services and deployed it in AWS EC2. Successful campus trials impressed investors, leading to encouragement for widespread deployment. Transformed the home services industry in Wichita, optimizing convenience and efficiency for service providers and customers alike.

mPokket | Java, Android, SQLite, Firebase, Git

- Designed and developed an Android e-wallet app tailored for WSU students, streamlining the process of requesting funds from verified lenders following successful student verification. Implemented MVVM and MVC design patterns for optimal structure and employed SQLite and Firebase for robust data management. Deployed the application on the Google Play Store, serving a user base exceeding 5,000 students.