Venkat Sai Kedari Nath Gandham

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Education

San Jose State University | GPA: 4.0/4.0 — San Jose, CA
Master of Science in Computer Software Engineering — Aug 2024 - May 2026

Kakatiya Institute of Technology and Science | GPA: 3.9/4.0 — Warangal, IN
Bachelor of Science in Computer and Electronics — Jun 2018 - Jun 2022
Coursework: Enterprise Distributed Systems, Software Systems Engineering, Data Structures and Algorithms, Machine Learning, Deep Learning, Operating Systems, Computer Networking, Database Management, Web UI/UX

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, Java, HTML, CSS
Frameworks: Next.js, Node.js, React Native, Bootstrap, Angular, Django, Spring Boot, Tailwind CSS
Libraries: React, Redux, Socket.IO, Webpack, SASS, Apache Kafka, RabbitMQ, Numpy, Pandas
Databases & Tools: SQL, MongoDB, Redis, Cassandra, GraphQL, Postman, Visual Studio Code
Others: Git, GitLab, Docker, CI/CD, Jenkins, Jira, Ajax, Kubernetes, PCF, AWS Cloud, Jest, Agile

Experience

Software Development Engineer I | Wipro — Jun 2022 – Aug 2024
- Designed and modernized ERP system's front-end with **React** and **Tailwind CSS**, incorporating features including drag-and-drop customization, cutting load times by 40% and elevating user experience for enterprise clients.
- Architected a high-performance **microservices** ecosystem leveraging **Node.js**, **Express**, and **GraphQL**, optimizing data querying to achieve a 30% boost in API response times and a 50% reduction in data over fetching.
- Implemented advanced state management using **Redux** Toolkit and **React Query**, integrating memoization and optimistic updates to minimize redundant API calls by 40% and enable seamless real-time data synchronization.
- Orchestrated an efficient **CI/CD** workflow involving **Jenkins** and **Docker**, implementing automated testing and deployment processes to accelerate feature delivery by 35% and refining system stability.
- Collaborated in **Test-Driven Development** (TDD) utilizing **Jest** and **Mocha** for unit and integration tests, and employed **Cypress** for end-to-end testing, reducing post-release defects by 25% , enhancing code maintainability.
- Demonstrated expertise in cutting-edge tech, including **Java**, **Node.js**, **ReactJS** for development, **SQL** and **NoSQL** for data management, and **ECS**, **Lambda**, **S3**, **CloudFront** for seamless cloud operations.

Software Developer Intern | Wipro — Feb 2022 – June 2022
- Refactored a RESTful API for an Employee Self-Service Portal serving 10,000+ concurrent users, applying **Object-Oriented Programming** (OOP) principles, minimizing server costs by 30%.
- Created a high-performance **distributed microservices** architecture incorporating **Kafka**, **Nginx**, **Prometheus**, and **Grafana** for real-time monitoring, decreasing deployment cycles by 30%.
- Accelerated data retrieval through **Redis caching**, **MongoDB indexing**, and **API rate-limiting**, embedded **GitLab CI/CD pipelines**, and leveraged **New Relic**, resulting in a 50% improvement in response latency.

Projects

Circle Chat App ([Link](#) | [GitHub](#)) — Aug 2024 – Nov 2024
- Developed a real-time group chat app based on **Next.js**, **Docker**, **Redis**, and WebSockets, attaining 99.9% uptime. Executed secure groups through shareable links, optimized for scalability via **Kubernetes** and load balancing.
- Built a scalable microservices architecture on **AWS EKS** using **Kafka**, **Prisma ORM**, **PostgreSQL**, and **Elastic Load Balancer**, enhancing fault tolerance and reducing message latency by 40% for real-time applications.

Public Leader App, Project Owner ([Live](#) | [Link](#) | [GitHub](#)) — Oct 2019 – Feb 2022
- Conceptualized, Built, and launched a cross-platform mobile app with **React Native** and **Firebase Cloud Messaging** for real-time notifications, driving product lifecycle from concept to 100% deployment efficiency.
- Fulfilled and delivered an app managing data for 200,000+ beneficiaries across 64 programs, utilizing **React Navigation**, **Context API**, and **Firebase Authentication**, boosting operational output by 50%.

Achievements

Hackathons: Clinched first place in Wipro Digital 2023 and Secured 2nd position at Wipro CodeStorm Hackathon.
Awards: Earned Tech Excellence Award and recognized as Star Performer of the Month twice.