GANESH SARAKADAM

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Full stack software engineering professional with over **4+ years** of experience building scalable, high-quality solutions that meet business needs and enhance user experience by leveraging passion for learning new technologies.

TECHNICAL SKILLS

Programming: JavaScript, Python, Java

Web Development: Angular, React, TypeScript, Vue, Redux, NgRx, HTML5, CSS3

Back End: NodeJS Express, FastAPI, Python flask, REST, GraphQL

Databases: MySQL, PostgreSQL, Elasticsearch, MongoDB, Redis

Tools and Concepts: Docker, Kubernetes, CI/CD, Microservices, SQL, Design Patterns, NoSQL, Tomcat, Restful Web Services, AWS, Natural language processing, Object-Oriented design, Data Analytics, Data science,Data mining, Distributed Systems

Testing: Mocha, Jasmine, Selenium, Junit, Jest, Karma, Cypress, SinonJS

Project Management: Project Planning, Task Management, MVP Creation, Scrum & Agile Methodology (**Azure Board**)

PROFESSIONAL EXPERIENCE

Low Altitude Weather Network, Ohio University: *Athens, OH, Research Assistant* **Aug 2022 – Aug 2023**
- Pioneered a real-time **1TB weather data archive**, reducing retrieval times from minutes to milliseconds and enhancing API response for **10+ research** and aviation entities through automation and **caching**.

Berkadia, Platform Development Team: *Hyderabad, India, Software Engineer* **Mar 2021 – Aug 2022**
- Delivered RESTful Web APIs using **Node.js**, express framework. Utilized **Microservices architecture**, employing an **API Gateway** to manage and coordinate the overall architecture.
- Achieved a 25% reduction in production **docker image size** with **multi-stage builds** and developed web applications using **Angular**, NodeJS, **Docker**, and **Kubernetes**.
- Spearheaded the **migration** of multiple front-end **React and** back-end **Nodejs repositories** from **JavaScript to TypeScript** across the organization.
- Built reusable **UI components** in **Angular** and **React**, reducing duplicate code by 65% and speeding development by 40%.
- Architected and deployed **GraphQL** APIs using **Apollo Server**, seamlessly integrating with **microservices**. Enabled efficient data fetching for web clients, reducing API response times by 40%.
- Enhanced **MongoDB** and **Elasticsearch** pipelines through indexing and query optimizations, resulting in 50% faster data retrieval and 20% less server load.

Berkadia, **Platform Development Team:** *Hyderabad, India, Associate Software Engineer* **Mar 2018 – Mar 2021**
- Developed features for the ticketing **CRM** web application as a full-stack developer, using **React**, **Redux**, **Angular** and **MySQL**. Reduced ticket submission form loading time by 50% through code optimization.
- Streamlined **real-time** CRM updates across microservices architecture using **Apache Kafka** for efficient topic organization and event flow management.
- Implemented **Redis** for 40% faster Ticket ID generation and led a team effort in migrating services and refactoring code while upgrading Angular from **v12 to v13**.
- Developed a Rule Engine using **NodeJS, Knex, Bookshelf** to optimize and streamline ticket processing operations, resulting in a remarkable 80% decrease in the time required to complete the ticket processing.

PROJECTS

Berkadia.com | *Angular, Elasticsearch*
- Designed and built a responsive property search web app, resulting in an 85% increase in traffic by integrating location suggestions, filters, map views, and customized Elasticsearch indexes for robust search functionality.

Ticketing Workflow | *Angular, Nodejs, Kafka, Redis*
- Engineered an end-to-end ticket workflow system with Redis caching for faster operations and created a reusable "@mention" Angular component to boost platform collaboration.

EDUCATION

Master of Science in Computer Science **Expected May 2024**
Ohio University, Athens, OH

Bachelor of Technology in Computer Science **Aug 2014 – May 2018**
JNTUH, Hyderabad, India