MANIKUMARREDDY GAJJELA

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PROFESSIONAL EXPERIENCE

Tetra Computing LLC *Remote, US*
Full Stack Developer *Jan 2023 – Present*

- Developed and maintained scalable, high-performance web applications using **React.js, Node.js, Express.js, MongoDB**, and **AWS** services, resulting in improved performance and reliability across multiple platforms.
- Architected and implemented **RESTful APIs** and integrated third-party APIs to enhance application functionalities, enabling seamless data exchange across systems.
- Improved user experience by optimizing **React.js** components and implementing **Redux** for efficient state management.
- Worked closely with DevOps teams to implement **CI/CD pipelines** using **Jenkins, Docker**, and **Kubernetes**, improving deployment efficiency and reducing downtime.
- Optimized **PostgreSQL** and **MongoDB** databases, writing complex queries, and designing schemas to handle high-traffic environments, leading to a 25% reduction in query response times.
- Utilized **AWS services** like **S3, Lambda, EC2**, and **CloudFormation** for building and managing cloud-native applications.
- Collaborated in an **Agile/Scrum** environment with product managers and designers, ensuring alignment with project goals and timelines.
- Conducted **unit testing, integration testing,** and automated deployment processes, reducing the error rate by 30%.

WHISTLE DRIVE — *Hyderabad, Telangana*
Associate Software Engineer
Jan 2022 – Jan 2023
Project: LogisticsAI
Technologies: React.js, Redux, HTML, CSS, PostgreSQL, Express.js, RESTful API, AWS, JavaScript, TypeScript

- Spearheaded the front-end development of a dynamic logistics platform using **React.js** and **Redux**, enhancing real-time data interaction and improving user engagement by 20%.
- Engineered efficient, scalable back-end APIs using **Express.js** and **Node.js**, while integrating **AWS** services like **Lambda** and **S3** for secure and reliable data storage.
- Designed and managed a complex **PostgreSQL** database, enhancing data accessibility and ensuring smooth data flow between the front-end and back-end systems.
- Implemented **TypeScript** for enhanced type safety and code reliability, reducing runtime errors and improving development efficiency.
- Integrated **AWS CloudWatch** and **Elastic Load Balancing** for monitoring and auto-scaling of the application, improving system reliability and reducing downtime.
- Ensured code quality through automated **unit tests** and **integration tests**, while implementing **TDD (Test-Driven Development)** practices.

- Worked with **Agile methodologies** and contributed to sprint planning, daily standups, and retrospectives, ensuring smooth team collaboration and timely project deliveries.
- Played a critical role in **code reviews** and **mentoring junior developers**, ensuring adherence to best practices and design patterns.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, C#, SQL
- **Web Development**: HTML5, CSS3, JavaScript (ES6+), TypeScript, React.js, Redux, Angular, SASS, Bootstrap
- **Back-End:** Node.js, Express.js, RESTful API, .NET Core, Microservices Architecture
- **Database Management**: PostgreSQL, MySQL, MongoDB, DynamoDB
- **Cloud Platforms**: AWS (EC2, S3, Lambda, CloudFormation, CloudWatch), Azure
- **Version Control:** Git, GitHub, Bitbucket

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems New York City, New York
Computer Science   Jan 2023 – May 2024
Osmania University   Hyderabad, Telangana
Bachelor of Science in Computer Science   2017 July - Mar 2020