**Kousic Reddy Thimmareddy**

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# OBJECTIVE

Software Engineer with 3+ years of experience seeking a challenging position to leverage my expertise in full-stack development, database management, and cloud technologies. Proven ability to design, develop, and deploy scalable applications that improve efficiency and user experience.

# EDUCATION

**University of North Carolina at Charlotte,** Master’s in Computer Science (GPA: 3.77)**May****2024, Charlotte, USA**

**Relevant Coursework**: Algorithms, System Design and Implementation, Computer Networks, Database Systems.

**Responsibilities:**  Teaching Assistant (Aug 2023 - present): Designed curriculum enhancing student proficiency in React, NodeJS, and JavaScript by 30%; mentored 120 students, resulting in a 20% improvement in troubleshooting and web application success rates.

**Certifications**: NPTEL - Database Management Systems, Coursera - Full Stack Web Development with React, PEGA Certified System Architect (CSA).

# Skills

**Programming Languages**: C#, Java, Python, JavaScript, Typescript, C, C++.

**Databases**: SQL Server, MySQL, PostgreSQL, Oracle, MongoDB, Entity Framework.

**Frameworks and Libraries**: .NET, .NET Core, React.js, Angular, Node.js, Next.js, Web API, RESTAPIs, GraphQL, AWS.

**Tools:** VS Code, Visual Studio Professional, Git, BitBucket, Bamboo, Docker, Jenkins, Postman, RabbitMQ, Octopus, Jira, Veracode.

# PROFESSIONAL EXPERIENCE

**Software Engineer,** Cotiviti Inc*.* **Jan 2020 – Dec 2022, India**

* Involved in all stages of SDLC including Requirement Analysis, Design, and Implementation in Agile Methodology, while seamlessly integrating software best practices like **Test-driven Development (TDD)**, **Continuous Integration (CI),** and **Continuous Delivery (CD)**.
* Involved in developing a highly efficient medical viewer application using **ReactJS** and **.NET Core**, achieving a remarkable 60% reduction in processing time compared to the previous legacy version.
* Developed and optimized complex **SQL join** triggers and **Stored Procedures**, enhancing database performance.
* Automated test case execution and report generation using **Jenkins** and **Docker**, resulting in a 30% reduction in post-deployment issues.
* Worked on **RESTful API** to create services, tested on **Postman**.
* Collaborated with the retrieval team to optimize clinical data redirection, achieving a 20% improvement in process efficiency.
* Designed and deployed microservices with **.NET Core** and **RabbitMQ**, leading to a 40% reduction in processing time.
* Involved in migration and re-engineering of legacy services using **.NET 6.0.**
* Developed and tested a user-friendly web-based Sprint Retrospective application using **Node.js**, **Angular 8**, and **PostgreSQL**, featuring PDF generation capability, boosting productivity by 25%, and fostering team collaboration during retrospective meetings after each sprint development cycle.

**Key Achievements**: Recognized as “Best Employee of the Month” twice and with the “Best Employee of the Quarter” award.

**Software Development Intern**, *Virtual Labs.* **Oct** **2018** **–** **Mar 2019**, **India**

* Identified and resolved an average of 15 defects/bugs per week in the Virtual Labs web application, enhancing its performance and functionality.
* Provided optimized solutions that resulted in a 30% reduction in system downtime and improved user satisfaction.
* I worked proficiently with **HTML**, **CSS**, **JavaScript**, **jQuery**, **Node.js**, and **Express.js** to implement features and resolve issues, contributing to the overall development and enhancement of the platform.

# PROJECTS

**Rice Disease Classification App**

* Developed an Android app utilizing **Android Studio**, integrating Keras-powered deep-learning models for precise rice disease classification.
* Employed convolutional neural networks (CNNs) within **Keras** to enhance accuracy and efficiency, delivering reliable performance and proactive prevention strategies to users.

**Games Trading Web Application**

* Developed a secure games trading web app with modernized UI, utilizing **MVC** architecture, **Node.js**, **Express JS**, and **MongoDB**, featuring permission-based approval, robust authentication, and password hashing for enhanced data security.
* Automated build, test, and deployment workflows with **GitHub** Actions, leveraged **Amazon EC2** for scalability, **AWS** **S3** bucket for static file storage, and **Amazon DocumentDB** for efficient data management, ensuring streamlined development and optimized data storage and retrieval.