

Rajesh Bammidi

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EDUCATION

State University Of New York At Buffalo

Master's in Computer Science; GPA: 3.9/4.0

Buffalo, NY

Aug. 2022 – Dec 2023

Lovely Professional University

Bachelor's in Computer Science ; GPA: 9.32/10.0

Jalandhar, India

Aug. 2016 – May 2020

EXPERIENCE

University at Buffalo

Graduate Teaching Assistant

Jan. 2023 – Present

Buffalo, NY

- Working as a TA for the CSE 460/560 DMQL course under the guidance of Professor Sreyasee Das Bhattacharjee.
- Providing mentorship and guidance to students in their **PostgreSQL**-based capstone project development as part of their coursework.

Urban Company

Software Development Engineer 1

Dec 2020 – Aug 2022

Bangalore, India

- Created scalable backend microservices with **NodeJs**, **ExpressJs**, **TypeScript**, and **MongoDB** for provider matchmaking system. These microservices expedite the process of finding the best-suited provider for the customer, thereby enhancing the overall **CX**.
- Improved slot capacity service performance by reducing critical API response times through optimization, achieving **P99** and **P95** times of under **150ms** and **50ms**, respectively, from previous values of around **350ms** and **150ms**.
- Migrated native Provider **Android App** screens to **React Native** using the in-house framework called Orion, resulting in consistent **UX** across multiple platforms (Android, iOS). This migration significantly reduced deployment wait time by **45%** by implementing **OTA** feasibility.
- Created a dashboard to configure the provider calendar metrics at city level to handle the supply and demand, which helps to make informed business decisions and also integrated **Airflow** workflow to fill 1M data points in **MongoDB** for the dashboard.

NCR Corporation

Software Engineer 1

Jan 2020 – Dec 2020

Hyderabad, India

- Developed robust web applications for financial banks, leveraging **ReactJS** and **Spring Boot(Java)** to create responsive and scalable user interfaces and backend systems.
- Improved response time of critical backend APIs in banking applications from **180ms** to **70ms** through API profiling and optimization, and conducted load testing on the optimized APIs using **JMeter**.

TECHNICAL SKILLS

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

Database: PostgreSQL, MongoDB, MySql, Firebase, T-SQL, Azure

Development: MicroServices, SpringBoot, Android Development, ExpressJS, Nodejs, ReactJS, Material-UI, Hadoop

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

Others: DataStructures And Algorithms, Parallel Algorithms, Object Oriented Design, Database Design, Design Patterns, MPI

PROJECTS

Parallelization of KMP string matching algorithm | C/C++, MPI, SLURM

Jan 2023 – Present

- Designed and implemented a parallel KMP string matching algorithm under the guidance of Professor Dr. RussMiller using **OpenMP** and **MPI** frameworks. Focused on optimizing performance by improving communication between processors. Conducted experiments on large DNA datasets at the Centre for Computational Research facility in Buffalo, achieving a significant improvement in runtime. Developed skills in **high-performance computing**, **algorithm design**, and optimization

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

Aug 2022 – Dec 2022

- Designed and implemented a production-ready **PostgreSQL** database for the Home Services industry. Developed a user-friendly interface with advanced SQL query capabilities to efficiently manage customer, service, technician, and appointment data. Ensured scalability to accommodate growth and meet the changing needs of the business.