

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 – May 2023

Buffalo, NY

- Worked as a TA for the CSE 460/560 DMQL course under the guidance of Professor Sreyasee Das Bhattacharjee.
- Provided 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 developed Buffalo's groundbreaking home services web app using React for frontend development and Node.js with PostgreSQL for scalable backend systems. Successful campus trials impressed investors, leading to encouragement for widespread deployment. Transformed the home services industry in Buffalo, optimizing convenience and efficiency for service providers and customers alike.