

# Rajesh Bammidi

☎ +17169073693 | ✉ rbammidi@buffalo.edu | in [linkedin.com/in/rajeshbammidi](https://www.linkedin.com/in/rajeshbammidi) | 🐙 [github.com/rajeshbammidy](https://github.com/rajeshbammidy)

## 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 (CSE 250 Data Structures And Algorithms)

Jan. 2023 – Present

Buffalo, NY

- Guiding students in crafting **optimized code** solutions for real-world challenging problems. Conducting comprehensive code reviews and offering constructive feedback to enhance coding skills.
- Serving as a proficient Subject Matter Expert in **Core Java and JavaFX** technologies.

### 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

- I developed a parallel KMP string matching algorithm guided by Prof. Dr. Russ Miller, employing **OpenMP** and **MPI** frameworks. My emphasis was on enhancing inter-processor communication to optimize performance. I conducted experiments on substantial DNA datasets at Buffalo's Centre for Computational Research facility, resulting in notably improved runtime. I also assessed performance across diverse network bands like **TCP/IP** and **IB**. This project bolstered my proficiencies 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.