

# Ratna Prabhakar Majji

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## Education

### Wichita State University

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

Wichita, USA

January 2023 – May 2024

### V R Siddhartha Engineering College

Bachelor of Technology – Civil Engineering, CGPA: 9.1/10.00

Vijayawada, India

August 2015 – May 2019

## Technical Skills

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

**Database:** **PostgreSQL**, **MongoDB**, **MySQL**, Firebase, T-SQL, Azure, AWS (**AWS Certified Cloud Practitioner**)

**Development:** Microservices, **Spring Boot**, Android Development, Express.js, **Node.js**, **ReactJS**, Material-UI, Hadoop

**Dev Tools:** Git, JMeter, CI/CD, Docker, Agile, SCRUM, JIRA, VS Code, IntelliJ, Eclipse, Linux

**Others:** Data Structures and Algorithms, Parallel Algorithms, Object Oriented Design, Design Patterns, MPI, Open MP

## Experience

### GE HealthCare

May 2023 – August 2023

Intern, Software Developer

Bellevue, WA

- Building General Electric Healthcare (GEHC) infrastructure onto the **AWS** Cloud platform.
- Developing a converter that efficiently converts **HL7V2** messages to **FHIR** type utilizing **AWS Lambda** to ensure no data loss.
- Implementing infra as code solutions using **AWS CDK** to deploy necessary AWS services effectively for our systems.
- Implementing and overseeing the setup of a **GitLab** pipeline to automate the deployment process for all microservices and infrastructure code, resulting in an **85%** increase in deployment efficiency and enhanced developer productivity.

### Tata Consultancy Services

August 2020 – December 2022

Software Development Engineer

Bangalore, India

- Developed scalable backend microservices with **Node.js**, **Express.js**, **TypeScript**, and **MongoDB** for the provider matchmaking system, optimizing the customer experience.
- Reduced critical **API** response times for the slot capacity service, achieving **P99** and **P95** times under **150ms** and **50ms**, respectively, down from around **350ms** and **150ms**.
- Migrated native Provider Android App screens to **React Native** using the in-house Orion framework, ensuring consistent UX across **Android** and **iOS** platforms, reducing deployment wait time by **45%**.
- Developed graph-based algorithms within slot aggregator service, utilizing **SpringBoot**, to identify single points of failure in UI-connected components. Leveraged event-driven architecture (**Kafka**) to streamline user actions, resulting in a **70%** reduction of vulnerable components.
- Engineered a dashboard for configuring provider calendar metrics at the city level, enabling informed business decisions. Integrated **Airflow** workflow to populate **1M** data points in MongoDB for the dashboard.
- Implemented the Festival Management System (FMS) feature and seamlessly integrated it into the provider **Android (Java/Kotlin)/iOS** app and backend services. This enhancement enabled accurate prediction of provider availability during festive or holiday seasons, resulting in an **85%** reduction in no-shows. This contribution significantly improved customer service and business operations.
- Automated the existing microservices deployment process by integrating services into the **CI/CD** deployment pipeline, leading to an impressive **84%** boost in deployment efficiency. Leveraged **Jenkins**, **Jira**, and **GitLab** to successfully achieve this milestone.

### NCR Corporation

January 2020 – August 2020

Software Engineer

Hyderabad, India

- Developed robust web applications for financial banks using **ReactJS** and **Spring Boot (Java)** to create responsive and scalable user interfaces and backend services, achieving 100% test coverage.
- Optimized response time of critical backend APIs in banking applications from **180ms** to **70ms** through API profiling and optimization, and conducted load testing using **JMeter**.
- Led a team of interns in developing an organizational hiring platform from concept to deployment, utilizing **ReactJS** and **Spring Boot (Java)**. The product satisfied employee onboarding needs and delivered substantial value.

## Projects

### Project Enigma / PostgreSQL, Node.js, TypeScript, ReactJS, Git

- Designed and developed Buffalo's groundbreaking home services web app using **React** for frontend development and **Node.js** with **PostgreSQL** for scalable backend services and deployed it in **AWS EC2**. Successful campus trials impressed investors, leading to encouragement for widespread deployment. Transformed the home services industry in Wichita, optimizing convenience and efficiency for service providers and customers alike.

### mPokket / Java, Android, SQLite, Firebase, Git

- Designed and developed an Android e-wallet app tailored for WSU students, streamlining the process of requesting funds from verified lenders following successful student verification. Implemented **MVVM** and **MVC** design patterns for optimal structure and employed **SQLite** and **Firebase** for robust data management. Deployed the application on the Google Play Store, serving a user base exceeding 5,000 students.