

Ratna Majji

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Education

Wichita State University

Masters in Computer Science; GPA: 4.0/4.0

Wichita, USA

January 2023 – May 2024

Jawaharlal Nehru Technological University, Kakinada

Bachelors in Computer Science; GPA: 3.61/4.0

Kakinada, 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

Government of Andhra Pradesh

October 2019 – December 2022

Software Development Engineer

Vijayawada, India

- Developed a mobile app and website using **Flutter**, **Node.js**, and **MongoDB** to track cases, patient data, hospital vacancies, and vaccination. Utilized **Mapbox** and **Firebase Cloud Messaging** to create a centralized platform for effective **COVID -19** pandemic response.
- Utilized **Azure Redis** for caching and optimized database queries in the **AP online tax payment system**. Collaborated with team members to deploy the application on **AWS** using **Docker** containers, resulting in a highly available and scalable system that handled **1000+** transactions per hour.
- Contributed to the development of a web app using **Java**, **Spring Boot**, and **PostgreSQL** for **APSHCL**. Implemented **RESTful APIs** and optimized database queries, resulting in a **25%** improvement in response times and the ability to handle **500** concurrent users.
- Assisted in the development of **AP GSWS** web app using **Angular**, **Node.js**, and **MongoDB**. Implemented PWA features and lazy loading techniques, reducing initial page load time by **40%** and improving user engagement metrics by **15%**.
- Utilized **Git** for version control and **Jenkins** for **CI/CD** in the **AP CFMS** project. Implemented automated build and deployment pipelines, reducing manual deployment efforts by **80%** and enabling faster iterative development cycles.
- Participated in the development of an inventory management system for the **AP medical department** using **Python**, **Django**, and **PostgreSQL**. Optimized database queries and implemented indexing strategies, leading to a **30%** reduction in query execution time and improved system performance.
- Worked on integrating various **third-party APIs** like **Amazon S3** for file storage and **Twilio** for SMS notifications in the **AP Transport Dept.** website. Successfully implemented secure API communication, resulting in a **90%** reduction in manual data entry efforts.
- Actively participated in **Agile** development processes, including daily stand-ups, **sprint** planning, and retrospectives. Collaborated with **cross-functional teams** to deliver user stories on time and with high quality, achieving a **95%** sprint completion rate.
- Triaged and resolved complex employee tickets for various **AP government** website issues using **Jira**. Conducted thorough investigations, identified root causes, and implemented effective solutions, reducing the average ticket resolution time by **40%** and improving overall website stability.
- Actively stayed updated with the latest industry trends and technologies. Completed online courses in **Docker** and **Kubernetes**, and obtained certifications in **Agile methodologies**, demonstrating a commitment to continuous learning and professional growth.

Internships

GE HealthCare

May 2023 – August 2023

Intern, Software Developer

Bellevue, WA

- Built General Electric Healthcare (GEHC) infrastructure on the **AWS** Cloud platform.
- Developed a converter that efficiently converts **HL7V2** messages to **FHIR** format utilizing **AWS Lambda**, ensuring no data loss.
- Implemented infrastructure as code solutions using **AWS CDK** to effectively deploy necessary AWS services for our systems.
- Implemented and oversaw 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.

KPMG

July 2018 – December 2018

Intern, Software Engineer

Hyderabad, India

- Building Designed and developed POCs for low-code apps/workflows using Microsoft Power Suite, showcasing expertise in rapid prototyping and delivering functional solutions.
- Successfully integrated SharePoint, Outlook, Teams, and internal APIs to create seamless workflows, demonstrating strong system integration skills.
- Demonstrated proficiency in utilizing Microsoft Power Apps and C# to build custom business applications, automate workflows, and develop robust solutions, enhancing productivity.

Projects

Ecommerce Website / *Node.js, Express.js, React.js, MySQL, Stripe, AWS*

[Project Link](#)

- Developed a full-stack ecommerce website using Node.js and Express.js for the backend, React.js for the frontend, and MySQL as the database.
- Integrated Stripe payment gateway for secure and seamless payment processing.
- Deployed the application on Amazon Web Services (AWS) for scalability and reliability.

Movie Database Application / *Python, Flask, Vue.js, PostgreSQL, (TMDb) API, GCP*

[Project Link](#)

- Built a movie database application using Python and Flask for the backend, Vue.js for the frontend, and PostgreSQL as the database.
- Integrated with The Movie Database (TMDb) API to fetch movie data and provide a comprehensive movie information system.
- Deployed the application on Google Cloud Platform (GCP) for high availability and performance.

Twitter Clone / *Node.js, Express.js, Angular, MongoDB, Socket.IO, Azure*

[Project Link](#)

- Created a Twitter clone using Node.js and Express.js for the backend, Angular for the frontend, and MongoDB as the database.
- Implemented real-time communication features using Socket.IO for instant updates and notifications.
- Deployed the application on Microsoft Azure, leveraging services like Azure App Service for hosting, Azure Cosmos DB for database management, and Azure SignalR Service for real-time functionality.