

Manogna Chennuru

Phone: +1 (980) 837-3234 | [LinkedIn](#) | manognachennuru125@gmail.com | [Portfolio](#) | Charlotte, USA.

SKILLS:

- **Programming Languages:** Java, JavaScript, TypeScript, Python, SQL, HTML5, CSS3.
- **Frontend:** React JS, Angular JS, Redux, jQuery, Bootstrap, Tailwind CSS.
- **Backend:** Spring Boot, Node.js, Express.js, Hibernate, REST APIs.
- **Databases:** PostgreSQL, MySQL, MongoDB.
- **Cloud Services:** AWS EC2, AWS RDS, AWS DynamoDB, AWS Lambda, AWS API Gateway.
- **Others:** Unit Testing, Jenkins, Docker, Kubernetes, Apache Kafka, GIT, JUnit, Mockito.

EXPERIENCE:

Graduate Assistant – UNC Charlotte

Aug 2023 – May 2024

- Collaborated extensively with the course instructor to develop comprehensive course materials and assignments tailored for undergraduate and master's students, ensuring alignment with curriculum objectives and academic standards.
- Demonstrated proficiency in both **Java** and **Python** programming languages while grading student research projects, ensuring comprehensive assessment and feedback.
- Provided hands-on assistance to students in implementing full-stack projects, encompassing frontend technologies such as **React JS** and **Angular JS**, backend technologies including **Spring Boot** and **Node.js**, along with database management systems like **PostgreSQL** and **MySQL**.
- Actively participated in code reviews and provided constructive feedback to improve code quality and maintainability, along with, offering guidance in unit testing practices to ensure project robustness and successful completion.

Software Engineer – Automatic Data Processing (ADP)

Sep 2021 – Sep 2022

- Utilized **ReactJS** and **Redux** to refactor and modernize the user interface of the ADP Vantage HCM payroll system, implementing responsive design principles and state management techniques, consequently reducing user interaction time by **20%** in the payroll management module.
- Leveraged **Spring Boot** to enhance backend services, resulting in a **30%** reduction in average response time for payroll processing requests.
- Integrated **OAuth2** with **Spring Security** to implement robust authentication and authorization mechanisms, ensuring secure access to sensitive payroll data.
- Implemented comprehensive unit testing using **JUnit** and **Mockito** to validate the functionality and reliability of the enhanced payroll system across various use cases.
- Collaborated with cross-functional teams to implement **Docker** for containerization and **Jenkins** for continuous integration and delivery, resulting in a streamlined deployment process and enhanced overall system reliability.
- Played a key role in the migration of critical payroll system components to **AWS** cloud infrastructure, actively utilizing services such as **AWS EC2**, **RDS**, and **Lambda**, resulting in a **20%** reduction in infrastructure costs, contributing to improved scalability.
- Recognized with the **Employee of the Month** award (August 2022) for outstanding contributions to the project.

PROJECTS:

Task Management System

Developed a task management system using **Angular** with **Tailwind CSS** for frontend and **Spring Boot** with **Hibernate** for backend. Enables users to create, assign, and track tasks efficiently. Integrated with **AWS RDS** for seamless database management.

Company Collaboration Web App

Created a collaborative website for employee interaction, utilizing **Angular** for the frontend, **Node.js** for the backend, and **MySQL** for data management. Conducted thorough unit testing with **JUnit** to ensure functionality and reliability.

COVID-19 Data Prediction

Engineered and executed a predictive model using **Python**, **Pandas**, **NumPy**, **Matplotlib**, **Seaborn**, and **Scikit-Learn**, employing the Long-Short Term Memory (**LSTM**) network to forecast forthcoming cases and fatalities associated with the COVID-19 pandemic.

EDUCATION:

University of North Carolina at Charlotte, Charlotte, NC

Jan 2023 – May 2024

Master of Science (Major in Computer Science) - **GPA: 4.0/4.0**