

# LIKITHA RATNA CHAKKA

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## SUMMARY

Analytical & logically driven software engineer with 2+ years of experience in backend, cloud, and full-stack development. Skilled in Java, Spring Boot, AWS, and ReactJS, with academic and project excellence in AI, big data, and scalable systems using modern DevOps practices.

## PROFESSIONAL EXPERIENCE

### University of North Texas

Jan 2024 – May 2025

#### Student Assistant – Housing and Residence Life

Denton, TX

**Technologies:** *Microsoft Excel, SharePoint, Microsoft Teams, Internal Housing Databases, Structured Reporting Systems, Java, Python, PostgreSQL*

- Streamlined front desk operations for 500+ residents using Excel and SharePoint, improving workflow efficiency and service by 80%.
- Streamlined desk workflows using Excel and SharePoint, ensuring accurate data logs and efficient service for housing operations.
- Supported coding mentorship during summer camps, guiding students through debugging, code reviews, and programming practices.

### Wipro Limited

Jan 2022 - June 2023

#### Developer – Software Engineer I

Hyderabad, India

**Technologies:** *Java, Spring Boot, Hibernate, ReactJS, Python, PostgreSQL, REST APIs, MVC Architecture, Agile, Git, JIRA*

- Developed full-stack applications using Spring Boot and ReactJS, improving system scalability by 75% and user engagement by 80%. Applied Agile methodologies and optimized backend logic with Hibernate and SQL to accelerate development and delivery timelines.
- Earned PRP certification for expertise in Java, Python, and SQL. Improved application responsiveness by 10% through React Virtual DOM tuning, and enhanced team efficiency by implementing MVC design and streamlining coordination across Agile workflows.
- Boosted CRUD performance by 75% using Hibernate with PostgreSQL, ensuring faster data access and efficient database mapping.
- Reduced delivery time, through Agile adoption and effective backend integration using Spring Boot and J2EE in cross-functional teams.

### Let's Grow More

December 2021- January 2022

#### Web Development Intern

Remote

**Technologies:** *HTML, CSS, JavaScript, Bootstrap, React, Git, GitHub, REST APIs*

- Designed and deployed a responsive chocolates website using HTML, CSS, JavaScript, and Bootstrap with interactive layouts and forms.
- Developed an Open Source React app using functional components & hooks, improving state management and asynchronous API data handling.

### Elite Techno Groups

August – September 2021

#### Data Analytics Intern

Remote

**Technologies:** *Python, Pandas, Matplotlib, MySQL, JSON, REST APIs, Data Visualization*

- Conducted Olympic dataset analysis using Python and Matplotlib; visualized medal trends and athlete insights with 12+ analytical dashboards. Designed a scalable inventory management platform with JSON-based API handling and database integration, improving stock accuracy by 70%.

## CERTIFICATIONS & TECHNICAL SKILLS

**Certifications:** [Azure Fundamentals](#), [Salesforce AI Associate](#), [IIT Java Programming](#), [IIT Data Structures & Algorithms](#)

**Programming Languages:** Python, Java, C, JavaScript, SQL, PL/SQL, Golang, HTML5, CSS3, Unix, Linux

**Frameworks & Libraries:** Spring Boot, Hibernate, React.js, Angular, Node.js, Bootstrap, jQuery, JSP, Servlets, JUnit

**Databases:** MySQL, PostgreSQL, MS SQL Server, MongoDB, DynamoDB

**Cloud & DevOps:** AWS (Lambda, S3, EC2, API Gateway, IAM), Docker, Kubernetes, Jenkins, Apache Tomcat

**Tools & Technologies:** Git, CI/CD, RESTful APIs, JSON, XML, Postman, Web Development, GitHub, Agile, Scrum

**Soft Skills:** Problem-Solving, Effective Communication, Team Collaboration, Adaptability, Time Management

## EDUCATION

### Master of Science – Computer Science

Spring 2025

University of North Texas – Texas, USA

GPA: 4/4

**Course Work:** Fundamentals of Artificial Intelligence, Machine Learning, Natural Language Processing, Wireless Networks, Analysis of Computer Algorithms, Programming Languages, Big data & Analytics, Fundamentals of Database, Software Engineering, Harvesting, Storing & Retrieving Data

### Bachelor of Engineering – Computer Science Engineering

May 2022

Jawaharlal Nehru Technological University - Kakinada, Andhra Pradesh, India

GPA: 8.66/10

**Course Work:** Object Oriented Programming, Advanced Data Structures, Computer Networks, R Programming, Operating Systems, Project Management.

## PROJECT EXPERIENCE

### Vehicle Insurance Management System | *Java, Spring Boot, Spring MVC, Spring Security, Thymeleaf, JSP, JPA, MySQL*

- Developed a secure insurance platform with Spring Boot, MVC, and role-based access; reduced processing delays by 80% and improved system compliance through modular architecture, seamless CRUD operations, and robust backend–frontend integration for policy management.

### Amazon Prime Clone Deployment Platform | *Terraform, Jenkins, Docker, AWS ECR/EKS, ArgoCD, SonarQube, Trivy, Node.js, Prometheus, Grafana*

- Streamlined cloud-native deployment by automating AWS infrastructure with Terraform and CI/CD via Jenkins, reducing manual effort by 95%, accelerating release cycles by 80%, securing builds using Trivy, and boosting system observability by 70% using Prometheus-Grafana.

### Predictive Analysis of U.S. Traffic Accidents | *PySpark, AWS S3, Spark SQL, Random Forest, Feature Engineering, Big Data, Cloud Computing*

- Processed 7.7M accident records using PySpark and AWS, achieving 99.7% accuracy in multiclass severity prediction. Demonstrated scalable big data modeling, advanced feature engineering, and real-time decision-support capability for transportation and safety systems.

## HONORS & AWARDS

- Nominated by the **University of North Texas** for “**Phi Kappa Phi Honor Society**” in recognition of distinguished academic performance.
- Secured 2nd Place in Ad Making and Treasure Hunt competitions, showcasing creativity, teamwork, and analytical skills.
- Honored for outstanding leadership in Tech Club, promoting innovation, collaboration & technical engagement during final undergraduate year.