

# Alla Bindhu Sree Reddy

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## Education

### University of Florida

Master of Science (MS) in Computer and Information Sciences

Gainesville, United States

05/2027

- **Relevant Courses:** Analysis of algorithm, Machine learning, Distributed Operating System Principles, Computer Networks

### Chaitanya Bharathi Institute of Technology

Bachelor of Engineering (BE) in Information Technology CGPA: 9.03/10

Hyderabad, India

06/2023

- **Relevant Courses:** Data structures, Design and Analysis of Algorithms, Computer Networks, Discrete Mathematics etc.

## Skills

**Programming Languages:** Java, Python, Go, C, C++, JavaScript, TypeScript, SQL, HTML5, CSS3

**Frameworks & Libraries:** Spring Boot, Node.js, Express.js, React.js, chart.js Redux, Bootstrap, Material-UI

**Cloud, DevOps & Databases:** AWS (EC2, S3, CloudWatch, Lambda), Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions), Apache Kafka, PostgreSQL, MongoDB

**Tools & Methodologies:** Git, Jira, Agile, Scrum, REST APIs, Microservices, System Design, Unit Testing, Postman

**Certifications:** ReactJS from Udemy, AWS Certified Cloud Practitioner, AWS Certified Developer Associate, Python from Internshala & Coursera, AI for everyone from coursera, Introduction to Web Development from coursera

## Work Experience

### Software Engineer

JPMorgan Chase & Co.

08/2023 - 08/2025

Hyderabad, India

- Modernized a 30+ year-old legacy banking app into a scalable, maintainable platform supporting 25M+ monthly interactions.
- Upgraded Spring Boot versions, resolving high memory utilization; improved stability by 40% and cut outages by 50%.
- Built fraud-prevention mechanism for CD withdrawals, reducing fraud risk by 60%.
- Contributed to JPMC Wallet integration, improving responsiveness by 40% & customer satisfaction.
- Delivered bug fixes and enhancements, improving productivity across Chase's banker-facing platforms for 66M+ users.
- **Tech:** Java, Spring Boot, React, REST APIs, AWS (EC2, S3, CloudWatch), CI/CD, Agile etc.

### Software Engineer Intern

JPMorgan Chase & Co.

08/2022 - 09/2022

Hyderabad, India

- Developed REST APIs & front-end for Dealer Application, streamlining bulk data uploads & improving workflow efficiency.
- Built Kafka/MQ-based messaging pipelines for high-throughput, asynchronous communication and reliable data processing.

## Projects

### Image Segmentation using Mask R-CNN (convolutional neural networks — deep learning)

- Built an image segmentation system using Mask R-CNN for detecting objects and outlining their exact shapes.
- Helpful in use cases like self-driving cars, medical images, and security systems.

### Movie Rating Prediction & Recommendation System (Machine Learning)

- Developed to predict the rating for given movie & recommends k movies based on a given input movie director, cast and genres.
- utilized collaborative filtering techniques to analyze user preferences and similarities among movies to generate accurate and relevant recommendations.

### Polyglot Microservices (Distributed Systems — Cross-Language Architecture)

- Built a distributed payment system with Golang, Python, Java (Spring Boot), enabling modular, cross-language interoperability.
- Showcased language-agnostic microservices design for scalable financial operations.


### Intrusion Detection System using Federated Learning (Flower Framework — Network Security)

- Designed IDS with Flower Framework, achieving high accuracy via decentralized training while preserving privacy.
- Applied across IoT, healthcare, and finance for real-time threat detection without data exposure.

### YouTube Data Analysis and Prediction (Machine Learning — [IJRASET Publication](#) )

- Predicted video views & categories using Random Forest & Naive Bayes on large-scale YouTube metadata.
- Generated insights for content optimization; published in IJRASET.

## Achievements

- Attended [Analytics Convergence Summit](#)  at Indian School of Business (ISB)
- Participant & **Global Finalist** of AWS DeepRacer 2024 (Las Vegas) - **Top 8** worldwide, only JPMC team to reach Level 2.
- Won **2nd Place** in AWS GameDay (JPMC) & **Judge** in AIML Project Expo 2024 conducted at KLH University