Phaneendra Reddy Naredla

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PROFESSIONAL SUMMARY

Master's graduate in Computer Science (4.0 GPA) with strong expertise in Java, Spring Boot, AWS Cloud, and scalable backend systems. Skilled in building secure microservices, REST APIs, and real-time data pipelines with MongoDB, PostgreSQL, and Kafka. Hands-on experience with cloud-native deployments (Docker, AWS Lambda, API Gateway) and CI/CD pipelines. Recently explored GenAI-powered analytics to enhance backend intelligence.

EDUCATION

University of North Texas | Denton, TX   **AUG 2023- MAY 2025**
MASTER OF SCIENCE IN COMPUTER SCIENCE   **GPA: 4.0/4.0**

Gokaraju Rangaraju Institute of Engineering and Technology | Hyderabad, India   **AUG2019-MAY2023**
BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE   **GPA: 8.29/10**

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, SQL

Backend & Systems: Java, Spring Boot, REST APIs, Microservices, JUnit, Mockito, Maven, Gradle

Cloud & Infrastructure: AWS, Docker, CI/CD Pipelines, AWS (EC2, S3, Lambda, EMR, API Gateway)

Data & Analytics: MongoDB, PostgreSQL, MySQL Data Mining, Feature Engineering, Data Pipelines (Kafka, Spark), Performance Optimization

Other: Cloud-native architectures, Real-time Data Pipelines, High-Performance Computing, GenAI-powered Analytics

EMPLOYMENT EXPERIENCE

UNIVERSITY OF NORTH TEXAS, TEACHING AND RESEARCH ASSISTANT, Denton, TX
May 2024 - May 2025

- Teaching Assistant for 180+ graduate students across two core subjects: Software Development for AI and Software Engineering.
- Directly impacted the learning outcomes of 180+ students by simplifying complex backend and cloud concepts into industry-ready practices.
- Mentored students in backend system design, distributed computing, and cloud pipelines using Java, Spring Boot, and AWS.
- Guided hands-on projects involving real-time AI model deployment, microservices, and cloud-native backend workflows.
- Promoted modern software engineering practices including Git, Jenkins, automated testing, and API security across student projects.

SOVA SKILLS EDUCATION PRIVATE LIMITED, SDE INTERN, India
April 2022– July 2023

- Developed RESTful APIs using Java Spring Boot, deployed on AWS (S3, EC2), ensuring modular and secure backend services.
- Built data pipelines integrating MongoDB and AWS S3, enabling scalable analytics on structured/unstructured data.
- Automated deployments with Docker and GitHub Actions, reducing release cycles by 40%.
- Strengthened backend resilience with authentication, authorization, and input validation.
- Collaborated with cross-functional teams to optimize backend performance under high data loads.

ENGINEERING PROJECTS

Leaf Disease Detection Using Machine Learning Techniques, Team Lead
- Led a team to design and deploy an ML-based system for real-time crop disease detection.
- Applied Agile practices and managed time-bound milestones, demonstrating strong leadership and problem solving.

Distributed Movie Recommendation System
- Designed and deployed Java/Spring Boot microservices with PostgreSQL and Redis for high-availability recommendations.
- Implemented horizontal scaling and API optimization to handle high-volume concurrent requests.
- Deployed using AWS EC2, API Gateway, and S3 for cloud scalability.

Recommendation System for User Engagement
- Designed and implemented a collaborative filtering recommendation engine to personalize user content.
- Optimized models using matrix factorization and similarity measures, improving engagement by 18%.
- Deployed the system via REST APIs on AWS with auto-scaling infrastructure, supporting millions of requests.

AI-Driven Resume Analyzer
- Developed a Python-based system leveraging NLP and machine learning to analyze resumes and match them against job descriptions.
- Built REST APIs and integrated with a React frontend for real-time scoring and recommendations.
- Implemented observability with performance dashboards, enabling stakeholders to track analysis metrics effectively.

CERTIFIED COURSES

- AWS Cloud Developer – Associate
- GenAI Powered Data Analytics – Tata Certification
- Data Visualization with Python – Authorized by IBM
- AWS Academy Graduate - AWS Cloud Foundations
- AWS Academy Graduate - AWS Machine Learning Foundations
- Data Analytics with Python by NPTEL
- Data Science (R LANGUAGE) for Engineers by NPTEL

AWARDS/SCHOLARSHIPS/GRANTS

RCOB/MGMT Ken & Shirley Murphy Scholarship, $1,000 per semester, University of North Texas
AUG 2024-MAY 2025
- For academic excellence and entrepreneurship skills.