

BINDIYA VUNDAVALLI

+1 4803318714

bindiyavundavalli5

[linkedin.com/in/bindiyavundavalli](https://www.linkedin.com/in/bindiyavundavalli)

Skills

Languages: Python, Java, JavaScript, Typescript, React, Node, Express, Angular, HTML, CSS, SQL, MongoDB, Next.js, GraphQL
Technologies/Tools: GIT, JIRA, Jenkins, Kubernetes, Selenium, Spark, Tableau, Data Analytics, Crucible, AWS, Splunk, VSCode, Eclipse, IntelliJ, Docker, Kafka, Azure Kubernetes Service, Grafana, microservices, ELK stack, ETL pipeline, JWT, Selenium, NLP

Experience

Dell Technologies

Aug 2021 – Jul 2022

Software Engineer / Python, Apache Kafka, Spark, Flask, Next.js, Kubernetes

India

- Built a microservice-based sales analytics platform leveraging **Flask**, PostgreSQL, and **Pandas**. Performed complex data transformations, providing actionable insights, increasing CTR by 20%, optimized DB access time by **caching & paging**.
- Developed a robust data ingestion and **ETL pipeline** using Python, **Kafka**, **Spark Streaming**, for efficient distributed processing of large sales data volumes from multiple sources, improving data availability by 25%.
- Developed a **Next.js** web application for interactive sales insights and reporting, enabling real-time data visualizations.
- Architected and deployed a containerized microservices-based application on **Azure Kubernetes Service**, ensuring 99.9% uptime and optimal performance through load balancing, rolling updates, and monitoring with **Grafana**.
- Developed an advanced log analytics system utilizing the ELK Stack (Elasticsearch, Logstash, Kibana) to manage and visualize logs. Built Python scripts for automated parsing and anomaly detection, reducing error detection times by 40%.

Oracle Cerner

Jul 2020 – Jul 2021

Software Engineer / Java, Spring Boot, Splunk, JUnit

Bengaluru, India

- Worked on various Java and Maven jobs that enhanced features of devices used real time in **500+ hospitals** in India.
- Engineered a Java 8 wrapper for efficient DB management within a Spring Boot **microservices** ecosystem, incorporating advanced connection pooling techniques, reducing overhead and improving **performance by 15%**.
- Modified dashboards, alerts, reports, and macros in **Splunk logging** app using Splunk Enterprise to improve quality of logs generated by all the developers – the macros were used by **26k employees** across the company to search for logs.
- Instrumental in implementing **Spring-based RESTful microservice** (using TDD) involving 5 endpoints, with in-memory data caching using Redis, consumed by 1000s of lab technicians.

Oracle Cerner

Jan 2020 – Jul 2020

Software Developer Intern / Django, Python, React, Typescript

Bengaluru, India

- Developed a Git Automation tool using **Django** and GitPython, achieving **90% test coverage** through extensive testing with **Pytest**, ensuring high reliability and comprehensive functionality.
- Built a **React, TypeScript** based dashboard for Git automation, providing detailed analytics on commit trends, and branch health, integrated seamlessly with backend via REST APIs.

Espire

Mar 2019 – Dec 2019

Software Engineer Intern / Vue.js, Express.js, PostgreSQL, GraphQL, Selenium

India

- Developed a blog and post sharing platform using Express.js and PostgreSQL, integrating **GraphQL** to optimize data queries, enhancing efficiency by 30%. Employed Vue.js for reactive UI components, improving user engagement with faster page load.
- Implemented **Jenkins** for streamlined CI/CD, reducing deployment errors by 40%. Utilized **JWT** for robust user authentication, cutting unauthorized access attempts by half, ensuring secure user sessions.
- Leveraged **Selenium** for automated testing, achieving a 95% pass rate on critical functionalities. Enhanced system performance, reducing response times by 20% and improving resource efficiency during high traffic.

Projects

Image Classification using AWS / Python, AWS EC2, Lambda, Docker

- Developed an EC2 hosted service that can handle **10K concurrent requests** by utilizing AWS cloud resources.
- Implemented a RESTful web service architecture which employs EC2 instances at the Web and App Tiers and uses AWS Lambda function triggers as **load-balancer**. Used **Docker** container to streamline code execution.

Plain Text Summarization of Unilateral Legal Contracts / Python, PyTorch, NLP, ROUGE Metrics

- Developed a PyTorch-based bidirectional LSTM model for summarizing legal contracts, using TextRank with BM25 for ground truth summaries, achieving 83% accuracy measured by ROUGE-N metrics.

Expense Tracker / Python, Django, Twilio, AWS

- Crafted an intuitive expense tracking application with features like expense management, categorization, using **GraphQL** APIs, Twilio for notifications and AWS with Kubernetes for deployment.

Education

Arizona State University

Aug 2022 – Apr 2024

Master of Science in Computer Software Engineering, CGPA 3.93/4.00

Tempe, Arizona, USA

Purdue University, Simplilearn

Jul 2020 – Jul 2021

Post Graduate Program in Data Science and Machine Learning

India

Amrita Vishwa Vidyapeetham

Jul 2016 – Aug 2020

Bachelor of Technology in Computer Science and Engineering

Coimbatore, India