

VINDHYA KANTAMNENI

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PROFESSIONAL SUMMARY

Detail-oriented Computer Science graduate student with hands-on experience in scalable web applications, distributed systems, and cloud-native deployments. Proficient in Java, Python, React, and SQL, with solid knowledge of OS internals, storage systems, and performance optimization. Demonstrated ability to work in fast-paced, agile environments, contributing to end-to-end software development and deployment in distributed architectures.

EDUCATION

University of Central Missouri — Warrensburg, MO

Master's in Computer Science | Aug 2023 – May 2025 | GPA: 3.22/4.0

Relevant Coursework: Advanced Operating Systems, Compiler Design, Advanced Database Systems, Cybersecurity, Artificial Intelligence, MongoDB and NoSQL Databases

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate | Sep 2024 – Sep 2027
- Oracle Cloud Infrastructure 2024 Foundations Associate | Oct 2024 – Oct 2026
- Accenture Developer Program | Issued 2022

PROFESSIONAL EXPERIENCE

Software Developer Intern – Full Stack & Cloud

Cixcent Technologies — Hyderabad, India | Jan 2022 – Jun 2023

Key Role: Full-stack and cloud intern contributing to end-to-end development, deployment, and system optimization.

- Developed and deployed full-stack web applications using Angular and ASP.NET Core 8.0, improving responsiveness by 30%.
- Built and integrated RESTful APIs to streamline communication, reducing latency by 25%.
- Optimized SQL stored procedures and backend logic for efficient resource utilization and performance under high load.
- Deployed distributed applications on AWS EC2 and Azure Blob Storage with secure access controls and 99.9% uptime.
- Implemented async data pipelines to improve job scheduling and reduce response delay.
- Maintained GitHub codebases, enforced code quality using JUnit, and participated in Agile sprints.
- Tuned backend systems for performance, reducing post-deployment issues by 20%.

PROJECTS

Cloud-Based Task Manager App | Oct 2023 – Dec 2023

- Built a scalable task manager enabling team collaboration, task sync, notifications, and cloud storage.
- Designed REST APIs with Node.js, stored data in MongoDB, and deployed on AWS EC2/S3.
- Integrated secure JWT authentication and enabled multi-user collaboration.

Social Media Management System | Jan 2024 – Mar 2024

- Developed a multi-user platform with Flask, SQL Server, and front-end integration.
- Enabled real-time chat, post creation, content moderation, and admin tools for user activity tracking.

DSA-Based Problem Solver (CLI Tool) | Mar 2024 – Apr 2024

- Built a modular CLI tool implementing classic DSA techniques: trees, graphs, heaps, DP, backtracking.
- Measured time complexity, integrated test cases with JUnit, and included runtime profiling for performance benchmarks.

Operating System Scheduler Simulation | Nov 2023 – Dec 2023

- Simulated Round-Robin and Priority job scheduling in C to demonstrate CPU allocation and threading behavior.
- Measured execution latency and CPU utilization across job sets, replicating OS-level process management.

SKILLS

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

Web Technologies: HTML, CSS, React.js, Node.js, Express.js, Flask, REST APIs

Cloud & DevOps: AWS (EC2, S3, IAM, VPC, Lambda), Azure Blob Storage, OCI, Docker (Basic), Git, GitHub, CI/CD (Basic), Postman

Databases: MySQL, MongoDB, SQL Server, NoSQL

Systems & Concepts: Operating Systems (Advanced), Job Scheduling, File Systems, Performance Engineering, Storage Systems, Distributed Systems, DSA, OOP, Compiler Design, Multithreading, System Design, Design Patterns

Tools: JUnit, IntelliJ, Eclipse, Visual Studio Code

Soft Skills: Problem Solving, Communication, Team Collaboration, Time Management, Critical Thinking