

Yashwanth Raj Tirupati

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SUMMARY

Highly proficient Software Engineer with 2+ years of experience in designing, developing, and deploying robust software systems. Proven ability to collaborate effectively within Agile teams, delivering high-quality solutions and exceeding expectations. Expertise in Java, Python, and database technologies, coupled with a strong understanding of AWS, Docker, and Kubernetes.

EDUCATION

University of Dayton

M.S. in Computer Science

Dayton, Ohio, USA

Aug 2023 - May 2025

- **Concentrations:** Autonomous Systems and Data Science
- **GPA:** 3.41/4.00
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Virtual Reality, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Algorithm Design, Advanced Computer Vision.

Jawaharlal Nehru Technological University

B.Tech. in Computer Science & Engineering

Hyderabad, Telangana, India

June 2018 - July 2022

- **CGPA:** 7.3/10.00
- **Related Coursework:** Operating Systems, Database Management Systems, Computer Networks, Discrete Mathematics, Web Technologies, Software Engineering.

EXPERIENCE

Cognizant Technology Solutions

Software Developer

Chennai, Tamil Nadu, India

March 2023 - Aug 2023

- Developed and deployed 5 full-stack features for enterprise-level systems using Spring Boot (Java) and React, resulting in a 15% improvement in API response times and enhancing system scalability.
- Collaborated with product owners and stakeholders to translate user requirements into technical specifications, consistently delivering robust solutions within an Agile framework, exceeding project deadlines by 10%.

Cognizant Technology Solutions

Programmer Analyst Intern

Chennai, Tamil Nadu, India

March 2022-Sept 2022

- Identified and resolved 100+ critical bugs in enterprise applications, leading to a 10% reduction in reported issues across key modules, significantly improving system stability.
- Developed and implemented automated testing procedures, improving code quality and reducing testing time by 20%, contributing to more efficient release cycles.

PROJECTS

Enterprise-Grade Application Performance Optimization

Jan 2024-May 2025

- Reduced latency of critical API endpoints by 25% through code optimization and database query refinement, resulting in a 15% improvement in overall system performance.
- Implemented a new caching strategy that decreased database load by 30%, leading to significant cost savings and improved scalability for high-traffic scenarios.

Microservices Migration and Containerization

Jun 2024 - Present

- Successfully migrated a monolithic application to a microservices architecture using Docker and Kubernetes, improving deployment efficiency by 40% and enhancing fault isolation.
- Implemented automated CI/CD pipelines using Jenkins, reducing deployment time by 50% and enabling continuous integration and delivery within the Agile framework.

Cloud-Native Application Development on AWS

Sep 2023-Dec 2023

- Developed a new cloud-native application on AWS using serverless technologies (Lambda, API Gateway), reducing infrastructure costs by 20% compared to traditional deployments.
- Implemented robust monitoring and logging using CloudWatch and implemented automated scaling to handle peak loads, ensuring high availability and system resilience.

ACTIVITIES AND LEADERSHIP

University of Dayton

- Teaching Assistant, CPS 501 (Advanced Programming and Data Structures)
- Secretary, Indian Student Association (100+ members)

Dayton, Ohio, USA

Jan 2024-Apr 2024

Aug 2023-Apr 2024

Skills

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

Frontend: HTML, CSS, ReactJS, AJAX

Backend Frameworks: SpringBoot, NodeJS

Database: MySQL, MongoDB, Postgres

Automation: Appium, Selenium, Cucumber BDD, Jenkins, JUnit

AI & ML: PyTorch, TensorFlow, Jupyter, OpenCV, LLMs(GPT)