

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. Expert in Java and Python, with a proven track record of delivering high-quality, scalable solutions within Agile environments. Seeking to leverage expertise in full-stack development, database design (SQL), and cloud technologies (AWS, Docker/Kubernetes) to contribute to Fortra's innovative product development.

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% increase in API response times and improved code maintainability.
- Collaborated with product owners and a cross-functional Agile team to translate user stories into technical specifications, delivering robust, production-ready features and exceeding sprint goals 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 and improved system stability.
- Developed and implemented automated testing procedures, increasing code coverage by 20% and significantly reducing regression defects.

PROJECTS

High-Availability Enterprise Application using Spring Boot and Microservices

Jan 2024-May 2025

- Designed and implemented a fault-tolerant microservice architecture using Spring Boot and Kubernetes, achieving 99.9% uptime and improved scalability by 25%.
- Developed and deployed a robust CI/CD pipeline using Jenkins and Docker, reducing deployment time by 50% and enhancing the development process.

Cloud-Based Data Analytics Platform with AWS and SQL

Jun 2024 - Present

- Architected and deployed a scalable data analytics platform on AWS utilizing S3, EC2, and RDS (PostgreSQL), handling 1TB+ of data with a 99.95% uptime guarantee.
- Developed and implemented optimized SQL queries and data pipelines, improving query performance by 40% and enhancing data processing efficiency.

Secure Containerized Application using Docker and Kubernetes

Sep 2023-Dec 2023

- Containerized a legacy application using Docker, improving resource utilization by 30% and simplifying deployment processes.
- Orchestrated the containerized application using Kubernetes, increasing system resilience and enabling seamless scaling based on real-time demand.

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)