

# Yashwanth Raj Tirupati

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## SUMMARY

Highly proficient Software Engineer with 2+ years of experience in designing, developing, and deploying robust software applications. Proven ability to translate user needs into technical specifications, leveraging expertise in Java, Python, and Agile methodologies to deliver high-quality solutions. Seeking to contribute to Fortra's innovative team, enhancing existing products and developing new features.

## 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 systems using Spring Boot (Java) and modern front-end frameworks, resulting in a 15% improvement in API response times.
- Collaborated with product stakeholders and Agile team to deliver robust solutions, exceeding user requirements and improving maintainability by 20%.

### Cognizant Technology Solutions

*Programmer Analyst Intern*

Chennai, Tamil Nadu, India

March 2022-Sep 2022

- Identified and resolved 100+ bugs in enterprise applications, resulting in a 10% reduction in reported issues.
- Improved code quality and reliability by authoring technical documentation and enhancing test automation coverage by 15%.

## PROJECTS

### Enterprise Resource Management System Enhancement

Jan 2024-May 2025

- Redesigned key modules of an existing ERP system using Java and Spring Boot, resulting in a 20% increase in processing speed and 10% reduction in resource consumption.
- Implemented new features based on user feedback, increasing system adoption rate by 15% and improving user satisfaction ratings by 10%.

### Cloud-Based Data Analytics Platform

Jun 2024 - Present

- Developed a scalable data analytics platform on AWS using Python, Docker, and Kubernetes, processing 1TB of data daily.
- Improved data processing efficiency by 30% through optimized algorithm design and database indexing techniques.

### Automated Bug Detection System

Sep 2023-Dec 2023

- Built an automated system for detecting and reporting bugs in software applications using Python and machine learning, reducing bug detection time by 25%.
- Integrated the system into the existing development pipeline, increasing development team efficiency by 15%.

## 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)