

Yashwanth Raj Tirupati

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SUMMARY

A highly motivated and results-oriented software engineer with 2+ years of experience in designing, developing, and deploying robust software systems. Proven ability to translate user requirements into technical specifications, collaborate effectively within Agile teams, and deliver high-quality solutions while consistently exceeding expectations. Expertise in Java and Python, coupled with a strong foundation in database fundamentals, cloud technologies (AWS), and containerization (Docker, Kubernetes), makes me a strong candidate to contribute immediately to Fortra's innovative software development initiatives.

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 five full-stack features for enterprise-level systems using Spring Boot (Java) and React, resulting in a 20% improvement in overall system performance and a 15% reduction in bug reports.
- Collaborated with cross-functional teams (product, design, QA) within an Agile environment, consistently delivering high-quality solutions that met or exceeded stakeholder expectations and improved API response times by 15%.

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 improving system stability for key modules.
- Developed and implemented comprehensive test automation scripts, resulting in a 25% increase in testing efficiency and a 10% reduction in code defects.

PROJECTS

Enterprise-Grade Software System Enhancement for Improved Customer Support

Jan 2024-May 2025

- Redesigned and implemented a critical module using Java and Spring Boot, resulting in a 30% increase in processing speed and a 20% reduction in resource consumption.
- Collaborated with a team of five engineers to refactor legacy code, improving code maintainability and reducing technical debt by 15%.

Cloud-Native Microservice Architecture for Scalable Data Processing

Jun 2024 - Present

- Developed a new microservice architecture using Docker, Kubernetes, and AWS, achieving a 50% improvement in scalability and a 25% reduction in operational costs.
- Implemented automated deployment pipelines using CI/CD, reducing deployment time by 75% and improving overall system reliability.

Secure and Robust Authentication System for Enhanced User Protection

Sep 2023-Dec 2023

- Developed a new authentication system using industry-standard security protocols, improving user security and reducing vulnerabilities by 40%.
- Integrated the system with existing infrastructure seamlessly, ensuring minimal disruption to user workflow and achieving 99.99% uptime.

ACTIVITIES AND LEADERSHIP

University of Dayton <ul style="list-style-type: none">Teaching Assitant, CPS 501 (Advanced Programming and Data Structures)Secretary, Indian Student Association (100+ members)	Dayton, Ohio, USA <i>Jan 2024-Apr 2024</i> <i>Aug 2023-Apr 2024</i>
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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)