

# Yashwanth Raj Tirupati

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## SUMMARY

A highly proficient software engineer with 2+ years of experience in designing, developing, and deploying robust software applications. Proven ability to translate user requirements into technical specifications, collaborate effectively within Agile teams, and deliver high-quality solutions exceeding expectations. Seeking to leverage expertise in Java, Python, and database technologies to contribute to Fortra's innovative product development and enhance existing software systems.

## 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 modern front-end frameworks, resulting in a 15% improvement in API response times and enhanced code maintainability.
- Collaborated with product stakeholders and an Agile team to translate user requirements into technical specifications, delivering robust solutions that met all functional and performance goals.

### 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 for key modules and improved overall system stability.
- Authored comprehensive technical documentation and enhanced test automation processes, improving code quality and reducing testing time by 15%.

## PROJECTS

### Fortra Secure Access Gateway Enhancement

*Jan 2024 - May 2025*

- Developed and implemented a new module for Fortra's Secure Access Gateway, improving user authentication speed by 20% and enhancing security protocols to prevent unauthorized access.
- Collaborated with a team of 5 engineers to integrate the new module with existing systems, ensuring seamless functionality and minimal disruption to existing workflows.

### Scalable Data Pipeline for Threat Intelligence

*June 2024 - Present*

- Designed and implemented a highly scalable data pipeline using AWS services (e.g., S3, Kinesis, Redshift) to process and analyze large volumes of threat intelligence data, improving data processing efficiency by 30%.
- Developed and deployed containerized microservices using Docker and Kubernetes, ensuring high availability and scalability of the data pipeline.

## 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)