

Yashwanth Raj Tirupati

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SUMMARY

Highly proficient Software Engineer with 2+ years of experience in designing, developing, and deploying full-stack applications. Expert in Java/Spring Boot and Python, with a proven track record of improving system performance and collaborating effectively within Agile environments. Seeking to leverage expertise in problem-solving and mentorship to contribute to Fortra's innovative software solutions.

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 highly maintainable and scalable code.
- Collaborated with stakeholders to translate user requirements into technical specifications, delivering robust solutions within an Agile framework, improving API response times by 15%.

Cognizant Technology Solutions

Programmer Analyst Intern

Chennai, Tamil Nadu, India

March 2022-Sept 2022

- Identified and resolved 100+ bugs in enterprise applications, reducing reported issues by 10% for key modules.
- Developed and implemented technical documentation and automated tests, enhancing code quality and reliability.

PROJECTS

Enterprise-Grade Application Monitoring System

Jan 2024-May 2025

- Designed and implemented a scalable monitoring system using Java and Spring Boot, reducing application downtime by 20% and improving user experience.
- Integrated system with AWS cloud services and utilized Docker containers for deployment, achieving 99.9% uptime and seamless scalability.

Real-time Hand Tracking & Gesture Recognition for AR

Jan 2024-May 2025

- Developed a deep learning model (C++, PyTorch) for hand tracking in AR, achieving 98.5% accuracy on a custom dataset of 50 gestures.
- Implemented a lightweight architecture, reducing latency by 30% and enabling 90 FPS on-device performance for improved user interaction.

Automated Code Quality and Security Analysis Tool

Sep 2023-Dec 2023

- Developed a Python-based tool to automate code analysis, identifying and flagging potential security vulnerabilities and improving code maintainability.
- Integrated the tool into the CI/CD pipeline, improving code quality, reducing bug reports by 15% and shortening development cycles.

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)