**Yashwanth Raj Tirupati**

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**SUMMARY**

Results-driven Software Engineer with an M.S. in Computer Science and expertise in developing and deploying high-quality, maintainable software. Proficient in Java, Python, and C++, with experience in Spring Boot, PyTorch, and Agile methodologies. Adept at optimizing code for performance and collaborating effectively within diverse teams.

**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*  
 *•* **CGPA:** 7.3/10.00

**Hyderabad, Telangana, India** *June 2018 - July 2022*

*•* **Related Coursework:** Operating Systems, Database Management Systems, Computer Networks, Discrete Mathematics, Web Technologies, Software Engineering.

**EXPERIENCE**

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| **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 extensible and maintainable code.

*•* Collaborated with stakeholders to translate user requirements into technical specifications within an Agile environment, 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, resulting in a 10% reduction in reported issues for critical modules.

*•* Improved code quality and reliability by authoring technical documentation and augmenting test automation.

**PROJECTS**

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| **Real-time Hand Tracking & Gesture Recognition for AR** | *Jan 2024-May 2025* |

*•* Developed a deep learning model (C++, PyTorch) for high-fidelity hand tracking in a simulated AR environment, achieving 98.5% accuracy on a dataset of 50 complex gestures.

*•* Engineered a lightweight architecture with data augmentation, reducing latency by 30% and increasing model robustness by 25% for 90 FPS on-device performance.

**Enterprise-Level Software System Enhancement**  *Jun 2024 - Present* *•* Improved the performance of a critical enterprise system by refactoring core components, resulting in a 20% reduction in processing time and a 15% decrease in resource consumption.

*•* Implemented a new monitoring system that reduced error rates by 10% and facilitated proactive issue resolution. **Automated Code Quality Improvement System** *Sep 2023-Dec 2023* *•* Developed an automated code review system that identified and flagged 80% of common code quality issues, saving 10 hours per week in manual review time.

*•* Integrated this system into the CI/CD pipeline, improving overall code quality and reducing bug occurrences by 5%.

**ACTIVITIES AND LEADERSHIP**

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| **University of Dayton**  *•* Teaching Assitant, 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)