**Yashwanth Raj Tirupati**

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**SUMMARY**

Highly skilled full-stack engineer with 2+ years of experience in Java and modern front-end frameworks, seeking to leverage expertise in developing and optimizing scalable applications. Proven ability to translate user requirements into robust, high-performance solutions, improving API response times and system reliability. Eager to contribute to a fast-paced team environment, collaborating effectively on complex projects and adhering to best practices.

**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 full-stack features for enterprise systems using Spring Boot (Java) and modern front-end frameworks, resulting in extensible and maintainable code.

*•* Collaborated in an Agile team to deliver robust solutions, improving API response times by 15% and exceeding stakeholder expectations.

**Cognizant Technology Solutions** *Programmer Analyst Intern*

**Chennai, Tamil Nadu, India**  *March 2022-Sept 2022*

*•* Identified and resolved bugs in enterprise applications, reducing reported issues by 10% for key modules.*•* Improved code quality and reliability by authoring technical documentation and enhancing test automation.

**PROJECTS**

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| **Scalable E-commerce Platform using Java and React** | *Jan 2024-May 2025* |

*•* Developed a high-performance e-commerce platform using Java (Spring Boot), Node.js, and React, supporting

10,000 concurrent users with ¡200ms average response time.

*•* Implemented RESTful APIs and microservices architecture for improved scalability and maintainability, resulting

in a 30% reduction in infrastructure costs.

*•* Integrated with a SQL database and implemented robust caching mechanisms for enhanced performance and user

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| experience.  **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 50-gesture dataset.

*•* Engineered a lightweight architecture, reducing latency by 30% and increasing model robustness by 25% to enable

90 FPS on-device performance.

**Microservices-based Streaming Service**

*Sep 2023-Dec 2023*

*•* Designed and implemented a microservices-based streaming service using Node.js and a NoSQL database, handling

500 concurrent streams with minimal latency.

*•* Developed robust API endpoints using RESTful principles for seamless integration with other systems, resulting in

a 20% increase in user engagement.

**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)