**Yashwanth Raj Tirupati**

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**SUMMARY**

Results-oriented Software Engineer with MS in Computer Science and proven expertise in optimizing CI/CD pipelines and developer workflows. Proficient in Python, Bash scripting, and containerization (Kubernetes, Docker). Passionate about improving developer experience and accelerating software delivery through automation and tooling.

**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 15% faster API response times.

*•* Collaborated with stakeholders to translate user requirements into technical specifications within an Agile environment, delivering robust and maintainable solutions.

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

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

*•* Improved enterprise application stability by identifying and resolving 10% of reported issues in key modules.*•* Enhanced code quality and reliability through technical documentation and augmented test automation.

**PROJECTS**

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| **CI/CD Pipeline Optimization for Microservices Architecture** | *Jan 2024-May 2025* |

*•* Redesigned CI/CD pipeline using GitHub Actions, reducing build times by 20% and deployment failures by 15%.

*•* Implemented automated testing and deployment strategies resulting in a 10% increase in developer velocity. **Automated Developer Tooling for Enhanced Workflow**  *Jun 2024 - Present* *•* Developed internal tools using Python and Bash scripting to automate repetitive tasks, improving developer productivity by 25%.

*•* Integrated tools with existing CI/CD systems, streamlining the development process and reducing deployment time.

**Kubernetes-based Build and Test Infrastructure** *Sep 2023-Dec 2023* *•* Migrated build and testing infrastructure to Kubernetes, improving scalability and resource utilization by 30%.

*•* Implemented automated scaling and load balancing, enhancing system reliability and reducing infrastructure costs by 10%.

**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)