**Yashwanth Raj Tirupati**

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**SUMMARY**

Results-driven Software Engineer with MS in CS and expertise in optimizing CI/CD pipelines and developer workflows. Proficient in Python, experienced with Kubernetes, and passionate about improving developer experience through automation and tooling. Seeking to leverage skills to accelerate software delivery at HeyGen.

**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 product 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*

*•* 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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| **Automated CI/CD Pipeline for Microservices** | *Jan 2024-May 2025* |

*•* Designed and implemented a high-performance CI/CD pipeline using GitHub Actions and Kubernetes, reducing deployment time by 40% and increasing reliability by 25%.

*•* Integrated automated testing and deployment strategies, resulting in a 30% reduction in deployment failures. **DevOps Tooling for Enhanced Developer Workflow**  *Jun 2024 - Present* *•* Developed internal tools using Python and Bash scripting to automate repetitive tasks, improving developer efficiency by 20%.

*•* Created a self-service platform for provisioning development environments, reducing setup time for new developers by 50%.

**Optimized Docker Image Builds for Faster Feedback Loops** *Sep 2023-Dec 2023* *•* Reduced Docker image sizes by 60% through multi-stage builds and optimized dependency management, resulting in faster build and deployment times.

*•* Improved build infrastructure scalability by migrating to a Kubernetes-based solution, handling 2x the concurrent builds.

**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)