

# 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*

**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 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

### 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

### 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)