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 **Dayton, Ohio, USA**
M.S. in Computer Science *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 **Hyderabad, Telangana, India**
B.Tech. in Computer Science & Engineering *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 **Chennai, Tamil Nadu, India**
Software Developer *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 **Chennai, Tamil Nadu, India**
Programmer Analyst Intern *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

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

University of Dayton **Dayton, Ohio, USA**

- Teaching Assitant, CPS 501 (Advanced Programming and Data Structures) *Jan 2024-Apr 2024*
- Secretary, Indian Student Association (100+ members) *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)