

# Yashwanth Raj Tirupati

☎ (937)-469-9700 ✉ [tyashwanth99@gmail.com](mailto:tyashwanth99@gmail.com) 🔗 [linkedin.com/in/yashwanthtirupati](https://www.linkedin.com/in/yashwanthtirupati) 🌐 [github.com/proxiee](https://github.com/proxiee)

## SUMMARY

Highly motivated software engineer with 6+ years of experience in designing, developing, and deploying robust software systems. Proven ability to translate user requirements into technical specifications, leveraging expertise in Java and Python within Agile environments to deliver high-quality solutions. Seeking to contribute my skills in database design (SQL), AWS, containerization (Docker, Kubernetes), and \*nix systems to enhance and maintain Fortra's software products.

## 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.

## EXPERIENCE

### Cognizant Technology Solutions

*Software Developer*

**Chennai, Tamil Nadu, India**

*March 2023 - Aug 2023*

- Developed and deployed 5 full-stack features for enterprise-level systems using Spring Boot (Java) and React, adhering to best practices for code maintainability and extensibility.
- Collaborated with product owners and an Agile team to deliver robust solutions, improving API response times by 15% and reducing bug reports by 10%.

### Cognizant Technology Solutions

*Programmer Analyst Intern*

**Chennai, Tamil Nadu, India**

*March 2022-Sept 2022*

- Improved the reliability of key enterprise applications by identifying and resolving 200+ critical bugs, resulting in a 10% reduction in reported issues.
- Enhanced test automation and authored comprehensive technical documentation, improving code quality and promoting best practices.

## PROJECTS

### Secure Data Ingestion Pipeline for AWS

*Jan 2024 - May 2024*

- Designed and implemented a highly scalable data ingestion pipeline using AWS services (S3, Kinesis, Lambda), processing 1TB of data per day with 99.9% uptime.
- Integrated robust security measures (IAM roles, encryption) to ensure data confidentiality and integrity, meeting strict compliance requirements.

### Microservice Orchestration with Kubernetes

*June 2023 - Dec 2023*

- Developed and deployed a cluster of microservices using Kubernetes, improving resource utilization by 20% and reducing deployment time by 50%.
- Implemented Helm charts for streamlined deployment and management, enabling seamless scaling and updates across multiple environments.

### Automated Security Auditing Tool

*Sept 2022 - May 2023*

- Built an automated tool using Python and SQL to audit system logs for security vulnerabilities, identifying 15% more threats than manual methods.
- Integrated the tool into the CI/CD pipeline to provide continuous security monitoring and improve the overall system security posture.

## ACTIVITIES AND LEADERSHIP

### 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

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**Languages:** Python, Java, C++, C, JavaScript, Kotlin

**Frontend:** HTML, CSS, ReactJS, AJAX

**Backend Frameworks:** SpringBoot, NodeJS

**Cloud:** AWS (S3, EC2, IAM, Lambda, A2I, SQS, SNS, VPC)

**Database:** MySQL, MongoDB, Postgres

**Automation:** Appium, Selenium, Cucumber BDD, Jenkins, JUnit

**Big Data:** Hadoop, Hive, Apache Spark, Kafka

**AI & ML:** PyTorch, TensorFlow, Jupyter, OpenCV, LLMs(GPT)

**Other Tools:** Terraform, Elasticsearch, Splunk, JIRA, Confluence, Kubernetes, Docker, Postman, Git, Containerization, Linux, Visual Studio Code

**Methodologies:** Agile, Scrum, SDLC, Test Driven Development(TDD), Root Cause Analysis, Code Review