Yashwanth Raj Tirupati

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SUMMARY

A highly motivated and results-oriented software engineer with 2+ years of experience in designing, developing, and deploying robust software systems. Proven ability to translate user requirements into technical specifications, collaborate effectively within Agile teams, and deliver high-quality solutions with a focus on efficiency and maintainability. Expert in Java and Python, with a strong foundation in database fundamentals and experience working with cloud technologies like like AWS and containerization platforms such as Docker and Kubernetes.

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 5 full-stack features for enterprise-level systems using Spring Boot (Java) and React, resulting in a 15% improvement in API response times and enhancing system scalability.
- Collaborated with product stakeholders and an Agile team to translate user requirements into technical specifications, delivering robust solutions that met stringent performance and maintainability standards.

Cognizant Technology Solutions   **Chennai, Tamil Nadu, India**
Programmer Analyst Intern   *March 2022-Sept 2022*

- Identified and resolved 100+ bugs in enterprise applications, leading to a 10% reduction in reported issues and improved application stability for key modules.
- Developed and implemented comprehensive technical documentation and automated testing procedures that increased code quality and reduced deployment risks.

PROJECTS

Enterprise-Grade Software System Enhancement using Microservices Architecture   *Jan 2024-May 2025*

- Designed and implemented a microservices architecture using Spring Boot and Docker, resulting in a 20% increase in system throughput and improved scalability.
- Developed RESTful APIs with comprehensive documentation and unit tests, ensuring seamless integration with existing systems and minimizing deployment risks.

High-Availability Data Pipeline using Kubernetes and Kafka   *Jun 2024 - Present*

- Architected and deployed a high-availability data pipeline using Kubernetes, Kafka, and PostgreSQL, achieving 99.99% uptime and reducing data processing latency by 30%.
- Implemented robust monitoring and alerting systems to proactively identify and mitigate potential issues, improving overall system reliability and reducing downtime.

Secure and Scalable Cloud-Based Application using AWS   *Sep 2023-Dec 2023*

- Developed and deployed a secure and scalable cloud-based application on AWS using EC2, S3, and RDS, reducing infrastructure costs by 15% while improving application performance.
- Implemented robust security measures to protect sensitive data, adhering to industry best practices and ensuring compliance with relevant regulations.

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)