**Yashwanth Raj Tirupati**

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**SUMMARY**

Results-oriented Software Engineer proficient in C++ and Qt, with a proven track record of debugging and troubleshooting system software anomalies. Experienced in developing and deploying tools for manufacturing and field support, utilizing automated testing (e.g., Squish) and object-oriented programming principles to deliver high-quality, efficient solutions.

**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, ensuring extensible, maintainable, high-quality code.

*•* Collaborated with stakeholders to translate user requirements into technical specifications within an Agile environment, improving API response times by 15%.

**Cognizant Technology Solutions** *Programmer Analyst Intern*

**Chennai, Tamil Nadu, India**  *March 2022-Sept 2022*

*•* Improved enterprise application stability by identifying and resolving bugs, resulting in a 10% reduction in reported

issues.

*•* Enhanced code quality and reliability by authoring technical documentation and augmenting test automation.

**PROJECTS**

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| **Automated Testing Framework for Manufacturing Diagnostics** | *Jan 2024-May 2025* |

*•* Developed a Qt (C++) and QML-based framework for automated testing of manufacturing equipment, reducing

testing time by 20% and improving diagnostic accuracy by 15%.

*•* Implemented unit and functional tests using Squish, resulting in a 10% decrease in post-release bugs.

*•* Successfully classified and categorized 500+ software anomalies, leading to improved troubleshooting efficiency. **Qt-based Diagnostics Tool for Field Support**  *Jun 2024 - Present* *•* Designed and implemented a Qt (C++) application for field technicians to diagnose and troubleshoot system issues

remotely, reducing onsite support calls by 25%.

*•* Integrated the tool with a central database to collect diagnostic data, improving issue resolution time by 18%.*•* Utilized object-oriented programming principles to build a modular and maintainable application.

**Improved System Anomaly Classification Algorithm** *Sep 2023-Dec 2023* *•* Developed a machine learning model to classify system anomalies with 95% accuracy, improving troubleshooting

efficiency.

*•* The algorithm processed 1000+ daily logs and reduced false-positive alerts by 30%.*•* Improved the accuracy of anomaly classification by 10% compared to the previous system.

**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)