**Yashwanth Raj Tirupati**

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| (937)-469-9700 | tyashwanth99@gmail.com | linkedin.com/in/yashwanthtirupati | github.com/proxiee |

**SUMMARY**

Results-oriented AI/CV Engineer with an M.S. in Computer Science and expertise in migrating applications. Proven ability to optimize on-device performance and improve model accuracy. Proficient in Python, C++, PyTorch and experienced in developing and deploying deep learning models for AR/VR applications. Seeking a Lead OCP Engineer role within the Financial Services industry.

**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 in an Agile team, translating user requirements into technical specifications and delivering robust solutions; improved 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 fixing bugs, resulting in a 10% reduction in reported issues.

*•* Enhanced code quality and reliability through technical documentation and improved test automation.

**PROJECTS**

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| **Migration of Legacy Financial Application to OCP** | *Jan 2024-May 2025* |

*•* Led the successful migration of a legacy financial application (100k+ lines of code) from PCF to OCP, resulting in a 20% reduction in infrastructure costs and a 15% improvement in application performance.

*•* Implemented robust monitoring and alerting systems, ensuring 99.9% application uptime post-migration.

Successfully managed a team of 5 engineers throughout the project lifecycle.

**On-Device 3D Scene Reconstruction for VR — Personal Project**  *Jun 2024 - Present* *•* Developed a custom SLAM algorithm that decreased tracking drift by 40% compared to baseline methods for large-scale environments.

*•* Optimized the system for resource-constrained mobile hardware, achieving a 2.5x speedup in mesh generation enabling interactive on-device performance.

**High-Performance Computing Cluster for Financial Modeling** *Sep 2023-Dec 2023* *•* Designed and implemented a high-performance computing cluster using Kubernetes, enabling a 5x speedup in complex financial model simulations.

*•* Successfully deployed and managed the cluster, achieving 99.99% uptime, reducing model processing time by 80%.

**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)