Suhas Panuganti

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EDUCATION

M.S., Computer Science — Old Dominion University, Norfolk, VA (GPA: 3.83/4.0), 2024–2025
B.E., Computer Science — Osmania University (MVSR Engineering College), Hyderabad, India, 2019–2023

PROFESSIONAL EXPERIENCE

Graduate Research and Administrative Assistant — Old Dominion University (Jan 2024 – Present)
- Automated academic and administrative workflows, reducing manual work by 70% and saving 200+ staff hours.
- Created SQL-based dashboards and automated reporting that accelerated decision-making by 40%.
- Supported 500+ students and faculty with technical solutions improving response speed by 60%.

Technical Trainer — TeK Certify (Cybersecurity), Hyderabad, India (Jun 2023 – Nov 2023)
- Trained 550+ learners in Python, Bash, and Linux; achieved 95% certification success rate.
- Developed technical labs that reduced setup time by 50% and improved learner engagement by 30%.

Engineering Intern — Defence Research and Development Laboratory (DRDL), Hyderabad, India (Jun 2022 – Aug 2022)
- Built C# telemetry interfaces for missile data; improved data processing efficiency by 40%.
- Integrated MIL-STD-1553 protocols in embedded systems ensuring secure communications.

Engineering Intern — Hyderabad Batteries Ltd (HBL), Hyderabad, India (Oct 2022 – Dec 2022)
- Enhanced monitoring systems for proximity-fuse testing ensuring 100% compliance with defense safety standards.
- Contributed to integration of electronic systems with computer-controlled defense equipment.

Graduate Teaching Assistant — Old Dominion University (Aug 2024 – Dec 2024)
- Facilitated labs and provided technical mentorship to 40+ students weekly, improving assignment pass rates by 25%.
- Implemented grading automation scripts cutting evaluation time by 30%.

Media and Marketing Assistant — Career Development Services, Old Dominion University (Mar 2024 – Aug 2024)
- Boosted event engagement by 25% through data-driven social media campaigns.
- Grew Instagram followers by 35% in three months via targeted strategies.

PROJECTS

Migration of CiteseerX Files — with ODU & PSU Professor
- Migrated 15M+ PDFs from PSU repository to Internet Archive while keeping PSU server live.
- Built XML sitemaps using checksums and automated workflows with Python, Elasticsearch, and Linux utilities.

Generative AI Screen Reader for Accessibility
- Developed an AI system that reads and summarizes web content for blind users with 95% accuracy across 10+ websites.

Cash Flow Analytics with Generative AI

- Designed NLP-driven cash flow predictor reducing analysis time from 2 hours to 10 minutes; improved forecast accuracy by 20%.

Fog-Enabled Healthcare Load Balancer

- Created a cloud/fog load balancing simulation improving routing efficiency by 30%.

Real-Time Face Mask Detector

- Built and deployed a TensorFlow model with 95% accuracy and <50 ms latency; deployed to 100+ users.

SKILLS

Software Development, Data Engineering, Generative AI, NLP, Machine Learning, Cloud Computing, , Git/GitHub, API Integration, Agile Development, Elastic search, Agentic AI, Django, Flask, React, Angular.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C#, Go, Rust
AI & Machine Learning: Transformers, DCGAN, Deep Learning, NLP, Generative AI, Agentic AI, Machine Learning
Big Data & Distributed Systems: Apache Spark, Data Engineering
Embedded Systems & Microcontrollers: Embedded Systems, 8086, Raspberry Pi, Arduino
Operating Systems: Windows, Macintosh, Linux (Kali, Ubuntu, Sushi – custom build)
Networking & Tools: Wireshark, Cisco Packet Tracer
Modeling & Documentation: StaR UML, MATLAB
Databases: MongoDB, MySQL
Cloud & Platforms: Google Cloud (Vertex AI), Elasticsearch
Version Control & Build Tools: Git
Web & Scripting: HTML, CSS, JavaScript, React, Angular, Flask, Django

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Languages : English, Telugu, Hindi.

CERTIFICATES

Gen AI: Beyond the Chatbot — Google Cloud
Trained in designing and deploying generative AI solutions with Vertex AI; covered content generation, code completion, data analysis, scalability, and responsible AI practices (ethics, safety, governance).

LEADERSHIP

- President — Indian Students Association (Aug 2024 – Present): Directed 5+ events per semester; increased engagement by 40% among 200+ students.
- Secretary — Global Student Friendship (2024 – Present): Organized 10+ outreach programs; expanded volunteer base by 25%.
- Tech Volunteer — Tab Church (Jul 2024 – Present): Supported 3+ digital initiatives improving outreach.
- Student Coordinator — Computer Society of India (2020 – 2023): Conducted 8+ workshops for 300+ participants.