PRAVEEN CHOURASIA

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LinkedIn

SUMMARY

Engineering graduate who enjoys building real-world systems and solving practical problems. Experienced in developing software and hardware–software solutions using Python, C++, and Linux, with exposure to AI, automation, and robotics projects. A quick learner with strong problem-solving and debugging skills, looking for opportunities to grow and contribute to impactful teams.

WORK EXPERIENCE

SUMMER INTERN, Intel Corporation   **May 2025 – Jul 2025**

- Developed a real-time multi-stream video analytics system using Intel DL Streamer, GStreamer, OpenVINO, Python, and Linux for decode–detect–classify pipelines.
- Benchmarked CPU vs GPU performance across 1–8 parallel streams, tracking FPS, latency, memory, and system utilization.
- Improved throughput through batching, inference intervals, process isolation, NIREQ tuning, and shared model execution, achieving up to 8× performance gains on GPU.

LEAD RESEARCHER, Team SRMAUV   **Feb 2025 – Sep 2025**

- Led research on AUV systems, covering navigation, control, perception, communication, and machine learning for deep-sea environments.
- Designed and tested real-time software pipelines using ROS 2, Python, OpenCV, sensor fusion, and data streaming for reliable autonomous operation in low-visibility conditions.

SOFTWARE LEAD, Team SRMAUV   **Jun 2024 – Feb 2025**

- Managed and mentored a team of software engineers to develop fully autonomous control and perception systems for international robotics competitions.
- Ensured real-time performance, reliability, and scalability through system integration, testing, and field deployment.

3D Printing Systems Intern, Kreator3D · Internship (STARTUP)   **Mar 2024 - Apr 2024**

- Centralized control of 6 networked 3D printers using PC-based print server setup, USB/Ethernet networking, and printer management software, enabling real-time monitoring and queue management.
- Linux system configuration, Hardware–software integration, Peripheral management, Device driver setup & troubleshooting.

EDUCATION

B.TECH IN COMPUTER SCIENCE ENGINEERING   **Aug 2023 - Present**

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
- Specialization in Internet of Things (IoT).
- Thesis (in progress): "Performance and Scalability Analysis of a Multi-Stream Edge AI Video Analytics Pipeline Using Intel DL Streamer"

ADDITIONAL INFORMATION

- **Technical Skills:** Project Management, Automation, Technical Leadership, Critical Thinking.
- **Languages:** English, Hindi
- **Certifications:** NPTEL JAVA Programming, AWS-Cloud Foundations, CISCO Networking Basics.
- **Awards/Activities:** TAC Challenge(NORWAY) 2024 Special award for 'TENACITY', 3rd Price in IEI QuadFusion Hackathon(2025).

RELEVANT UNDERGRADUATE COURSES

- **Computer Science:** Design & Analysis of Algorithms, Data Structures & Algorithms, Object Oriented Design & Programming, Programming for Problem Solving
- **Data Science:** Data Analysis Basics, Data Science: Introduction, Artificial Intelligence, Artificial Intelligence of Things
- **Mathematics:** Probability & Queueing Theory, Statistics, Advanced Calculus, Linear Algebra, Complex Analysis, Numerical Methods & Analysis