Suryansh Prajapati

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EDUCATION

Ramaiah Institute of Technology (https://msrit.edu), Bengaluru, IN *Nov 2022 - Jun 2026*
B.E., Computer Science and Engineering with Cybersecurity

WORK EXPERIENCE

Samsung R&D Institute India (https://research.samsung.com/sri-b) — Bengaluru, IN *Aug 2024 – Present*
Research and Development Scholar (Intern)
- **Improved system performance** through the development of efficient solutions for resource-constrained environments.
- **Optimized on-device processing** to enhance reliability and efficiency in low-end hardware systems.

Velocita Racing (https://velocitaracing.github.io) — Bengaluru, IN *Feb 2023 – Present*
Software Lead / Operations Lead (Formula Student Team Member)
- Built a telemetry platform for real-time race data visualization using **Prometheus** and **Grafana**.
- Implemented CI/CD pipelines with **Jenkins** and **Kubernetes**, improving deployment efficiency by 40%.

App Mastery (https://appmastery.co) — Toronto, CA *Jul 2024 – Sep 2024*
Junior Software Development Engineer (Intern)
- Developed AWS Lambda APIs capable of handling **1M+ daily requests** with scalability and efficiency.
- Integrated **Datadog** for enhanced monitoring and incident response.

SAP (https://sap.com) — Bengaluru, IN *Feb 2024 – Jul 2024*
Student Co-Ordinator for Hackfest 2024 & Finalist
- Developed the online platform for Hackfest 2024, with **lakhs of user** engagement.

COMPETITIONS

Flipkart Grid 6.0*: Top 20 All India*, Information Security Track.	**2024**
IIT-Bombay: **National Finalist**, UNESCO Supply Connect.	**2024**
SAP Hackfest: National Finalist, high-availability platform design.	**2024**
Google Code-In: **International Finisher** *(2017, 2019)* for open-source contributions.	**2019**

PROJECTS

FSAE Telemetry System
Developed a **real-time observability platform** using **Prometheus**, **Grafana**, and **Redis** for Formula Student teams.
HomeCloud
Open-source, self-hosted cloud platform replicating AWS services, enabling easy, scalable infrastructure deployment on local hardware.
System Monitoring Dashboard
Created an integrated system for **real-time monitoring** using **top**, **iotop**, and custom logs, combining **ELK Stack** for log aggregation and visualization.
Digital Identity Blockchain
Designed a **blockchain-based system** for secure identity verification on a distributed ledger, ensuring privacy and data integrity.
CLI Tools
Built a **Password Manager** and **alias manager** for **SimpleLogin (ProtonMail)** using **Python**.
Custom Shell
Created a custom **command-line shell** with piping and I/O redirection to enhance the usability of system processes.
Browser Extensions
Built extensions like **Tab Manager** and **WebP-to-PNG Converter** to automate and optimize web browsing.
Bots & Automations
Developed custom bots for **Telegram** and **Discord** to automate tasks and integrate systems for streamlined communication.
Video Interpolation and Frame Extender
Built a system for **video frame interpolation** to increase frame rates and extend video length while maintaining visual quality using **AI-based models**.

SKILLS

- **Languages** : C, C++, Python, Java, JavaScript, SQL, MATLAB, Bash, Go, Solidity
- **Cloud :** AWS, Azure, GCP
- **DevOps & Automation:** Docker, Kubernetes, Terraform, Jenkins, Helm, Ansible
- **Monitoring & Observability:** Prometheus, Grafana, Datadog, ELK Stack
- **Databases:** MongoDB, PostgreSQL, Redis
- **Version Control:** Git