

# Suryansh Prajapati

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## EDUCATION

Ramaiah Institute of Technology (<https://msrit.edu>), Bengaluru, IN  
B.E., Computer Science and Engineering with Cybersecurity

Nov 2022 - Jun 2026

## WORK EXPERIENCE

NatWest Group (<https://natwestgroup.com>) — Bengaluru, IN  
Software Engineering Intern

Jun 2025 – Present

- Working with **Customer Data Products D&A, Digital X**.
- Building alongside **MIMO Engineering Team**, core feature group within NatWest ecosystem.

Velocita Racing (<https://velocitaracing.github.io>) — Bengaluru, IN  
Software Lead / Operations Lead (Formula Student Team Member)

Feb 2023 – Present

- 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%.

Samsung R&D Institute India (<https://research.samsung.com/sri-b>) — Bengaluru, IN  
Research and Development Scholar (Intern)

Aug 2024 – May 2025

- 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.

App Mastery (<https://appmastery.co>) — Toronto, CA  
Junior Software Development Engineer (Intern)

Jul 2024 – Sep 2024

- Developed AWS Lambda APIs capable of handling **1M+ daily requests** with scalability and efficiency.
- Integrated **Datadog** for enhanced monitoring and incident response.

## 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. Also home to **Narratix**, a stealth project to move markets, validation ongoing.

### Privacy-First P2P File Sharing

Implemented **encrypted, chunk-based** peer-to-peer file sharing with **manifest-driven reconstruction** and exchange.

### 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 runtime while maintaining 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