

Urvish Rana

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[GitHub](#) | [LinkedIn](#) | [Stack overflow](#) | [Medium](#)

Professional Summary

Software Engineer with 6+ years of experience building and scaling distributed, cloud-native systems for enterprise and carrier-grade platforms. Strong expertise in Java, Kubernetes, and DevOps automation, with hands-on experience delivering SD-WAN and network management services at production scale. Proven record of driving performance and reliability improvements, including reducing critical backup workflows from 12 hours to 5 hours. Passionate about designing scalable systems, improving operational excellence, and solving complex problems in high-impact environments.

Professional Experience

Software Developer at Nokia Jan 2022 – Present

- Owned the **design, development, and production support** of cloud-native microservices within Nokia's NSP Solution, used in **carrier-grade enterprise environments**.
- Designed and maintained **Java-based, Kubernetes-deployed services** responsible for **long-running operational workflows** and system reliability in production..
- Led a **cross-component performance optimization initiative**, independently identifying bottlenecks and redesigning workflows to reduce **backup execution time by ~60%(12h to 5h)**.
- Drove **architecture discussions and design reviews** spring migration, influencing decisions around service decomposition, deployment strategies, and operational readiness.
- Provided **on-call support and incident resolution** for production issues, performing root-cause analysis and implementing long-term fixes.

Associate Engineer at Volansys Technologies Dec 2017 – Dec 2019

- Designed and developed **mobile and IoT software solutions** for production use.
- Built **IoT platforms** using Android, web applications, Firebase, AWS, and MQTT.
- Delivered multiple end-to-end projects, ensuring **code quality, security, and compliance** with development standards.

Technical Skills

Languages: Java, Python, C/C++, JavaScript

Cloud & DevOps: Kubernetes, Docker, Jenkins, GitLab CI, Ansible

Backend & Frameworks: Spring Boot, Hibernate, REST, gRPC

Databases: PostgreSQL, MySQL

Networking: HTTP, gRPC, MQTT, SNMP

Testing: JUnit, Mockito

Research and Projects

Multi-Agent For Automating Home Security

- Using Google ADK built a multi agent system that automates the Home security.
- Self hosting the llama LLM to have everything local and exposed the service using Twingate to proxy the traffic securely when away from Home.

HomeLab/Server for personal projects

- Developed a HomeLab running Proxmox as hypervisor and Portainer for container orchestration.
- Implemented Uptime-Kuma for system availability checks and nginx proxy for load balancing and reverse proxy.
- Automated Homelab deployment using Ansible and Terraform and Gitlab Actions

SFAS – Smart Fire Alarm System (Academic Project) University of Regina

- Created a smart fire alarm system using WSNs, Fire detection, IoT protocols, and an Android application.
- Utilized Wasp-mote sensor nodes for fire detection and reporting, integrated with Firebase and edge computing.

Extra-curricular activities

- Volunteer at Nokia Career Fair in Ottawa.
- Speaker at Career guidance session for interns/co-ops Nokia.

Education

University of Regina, Regina, SK Aug 2020 - Dec 2021
Master of Science in Computer Science, GPA – 82.6

Charotar University of Science and Technology July 2014 - Jan 2019
Bachelor of Engineering in Computer Engineering, CGPA - 8.67

Achievements

- Secured All India Rank 969 in national-wide online coding known as code-vita organized by Tata Consultancy Service.