

SANSKAR AGARWAL

Hyderabad, Telangana

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Summary

Experienced Software Engineer (L62) at Microsoft with 4 years in security, compliance, and cloud-native development. Proven leader and problem-solver in architecting automation, compliance, and scalable solutions for enterprise systems. Track record driving engineering excellence, operational efficiency, and mentoring diverse teams.

Work Experience

Microsoft

July 2021 – Present

Software Engineer 2 (L62) — Office ES365 Security & Compliance Team

Hyderabad, Telangana

- Leading an effort to architect and implement **AI-driven multi-agent** security review automation, streamlining security reviews across Office ES365.
- Led team of 4** to build Azure and Azure DevOps permission management and integrated **alerting/monitoring** solutions, centralizing telemetry, automating dependency tracking, and optimizing release gating.
- Enhanced secret management tooling, migrated >80% of functions to **secret-less** authentication, achieving near **100% security bug remediation** and improved organizational secret hygiene.
- Revamped supply chain compliance tools in **collaboration with global teams**, accelerating onboarding of new organizations, improving developer workflows, and saving **40+ dev hours/month**.
- Resolved 100+ SFI security issues in **partnership with customers**, saving over **60 developer days**.
- Mentored interns and new engineers**; drove knowledge-sharing initiatives on Azure Lighthouse, federated authentication, and more.
- Promoted **engineering excellence** in the team: robust coding standards, incident hygiene, efficient PR/design reviews, and data-driven sprint planning (S360 KPIs, Security Bugs).

Microsoft

Jan 2021 – June 2021

Software Engineer Intern — Automation Insights Team

Hyderabad, Telangana

- Developed analytics-driven cost-reduction solution for system usage, **saving millions** annually; delivered with **90%+ test coverage** and automated CI/CD pipelines.

Microsoft

May 2020 – July 2020

Software Engineer Intern — Automation Insights Team

Hyderabad, Telangana

- Built prototype billing system to track **engineering system ROI**, enhancing visibility into spend and anomaly detection.

Technical Skills

Languages: C#, Python, TypeScript, C++ (STL)

Cloud: Azure (Infra, DevOps, Service Bus, Event Hubs)

Web Frameworks: React, NextJS, TailWind

Data: SQL, Kusto

DevOps & Tooling: ARM, Bicep, GitOps, CI/CD, GitHub Copilot

Other: Security Engineering, Microservices, Distributed Systems

Education

Birla Institute of Technology, Mesra

July 2017 – June 2021

Bachelor of Engineering in Computer Science - GPA: 9.01/10.0

Ranchi, Jharkhand

Projects

Bitotsav | MERN, Azure

Dec 2019 – Feb 2020

- Led development and ops for college fest management platform, serving **1200+ users**; implemented event notifications and real-time admin dashboard.