

SANSKAR AGARWAL

Hyderabad, Telangana

📞 9897953951 ✉ sanskaragarwal.500@gmail.com 🌐 in/sanskar-agarwal 🐙 github.com/sanskagarwal 🏠 sanskagarwal.com

Work Experience

Microsoft

July 2021 – Present

Software Engineer 2 — Office ES365 Security & Compliance Team

Hyderabad, Telangana

- **Led** a team to drive solution for **permission management** in Azure & Azure DevOps, balancing between **security and user experience**, while addressing security debt during security waves.
- Architected and implemented an end-2-end solution for **1800+ Azure DevOps connections**, establishing secret ownership and inventory while enhancing security through secret-less migrations and automated secret rotation. **Collaborated with stakeholders and mentored an intern** to ensure seamless implementation and adoption
- Improved **performance of secret monitoring tools by 800%**, leveraging **Azure Event Hubs, Log Analytics, and multi-threading**, expediting compliance for 200+ key vaults and completing organization-wide secret hygiene efforts.
- Developed **secret rotation workflows** and setup **Express V2 deployment** to migrate from an org tool to a **Microsoft-wide tool**. Led on-boarding efforts to move **100% of secrets** to periodic rotation, ensuring compliance and supporting external customers.
- Automated compliance evidence collection, saving **40+ hours/month** of manual effort, leading to error-free SOC audits and improved reliability in monitoring systems by leveraging vendor efforts.
- Collaborated with **cross-geo teams and took ownership** to revamp a supply chain compliance tool, enabling faster adoption by new organizations, improving **dev workflows**, and bolstering the team's compliance posture.

Microsoft

Jan 2021 – June 2021

Software Engineer Intern — Automation Insights Team

Hyderabad, Telangana

- Developed a cost-reduction solution using **system usage analytics**, achieving annual savings in the **millions of dollars**, with **94% test coverage** and fully automated CI/CD pipelines.

Microsoft

May 2020 – July 2020

Software Engineer Intern — Automation Insights Team

Hyderabad, Telangana

- Created a billing system prototype to track **Engineering Systems usage and ROI**, improving visibility into cost savings and identifying anomalies effectively.

Technical Skills

Languages: C#, TypeScript, C++ (STL), HTML/CSS/JS

Technologies/Frameworks: React, SQL, Kusto, CosmosDB, NextJS, TailWind, Azure, Azure DevOps

Developer Tools: Git, GitHub, VS Code, Visual Studio, GitHub Copilot

Projects

Bitotsav | *MERN, Front end Web, Azure Compute*

Dec 2019 – Feb 2020

- **Led** a team of four in developing the frontend and REST APIs for a college fest platform, serving over **1200 users** with real-time notifications and authorized CRUD operations.
- Hosted the solution on Azure, incorporating an admin dashboard for seamless event management and monitoring.

Education

Birla Institute of Technology, Mesra

July 2017 – June 2021

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

Ranchi, Jharkhand

Leadership / Extracurricular

- Tech Lead, Bitotsav'20 & Pantheon'19, annual cultural/tech fest of BIT Mesra.