

Pratyush Kumar

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Summary

- Software Engineer II with 4 years building **large-scale distributed backend systems** and cloud-native services. Strong across the full engineering lifecycle – system design, scalable APIs, distributed data processing, identity & security, cloud modernization, and AI/LLM-based solutions – with deep expertise in **Azure** and **.NET**. Hands-on across C#, C++, Java, Python, and JavaScript.

Experience

Software Engineer II, Microsoft – Hyderabad, India

05/2025 – Present

- Architected **JobScheduler**, an asynchronous distributed audit-search engine that replaced a synchronous PowerShell cmdlet path – as measured by **50K+ searches/day and 10M+ records/day across 12 regional stamps** – using parallel per-shard fan-out, per-tenant concurrency control, and sharded Azure Table / Event Hub storage for internal M365 solutions (Insider Risk Management, DataInsights).
- Extended audit search to external customers and ISV apps by exposing the engine through the **Microsoft Graph Security API** – now adopted by **200+ external tenants** – with OAuth (app & delegated) authorization, RBAC, and multi-tenant isolation, reusing the same backend.
- Ported core Auditing services (JobScheduler, AuditSearch API) from **.NET Framework 4.7.2 to .NET 8** as part of the team's modernization, replacing deprecated dependencies (AppAuthentication to Azure.Identity) and unblocking AKS hosting.
- Led authentication modernization from legacy AAD/OWIN to **MISE** (Microsoft Identity Service Essentials) – as measured by **6 clouds cut over with zero auth downtime** – via per-cloud JSON config across commercial and government (GOV) clouds behind feature-flagged, reversible rollout.
- Replaced secret/certificate credentials with **Azure Managed Identity** for Cosmos DB, Event Hub, Storage, and SQL access, eliminating **40+ stored secrets** and a recurring class of credential-expiry incidents through per-resource, flag-controlled cutover.
- Designed and built **Audit Analytics**, an agentic AI tool (Claude API) that turns natural-language questions into live audit-data visualizations through a multi-step pipeline (intent parsing → query synthesis → retrieval → rendering) with self-correction loops – presented to **50+ engineering leaders** at HackWeek.

Member of Technical Staff II, Adobe – Noida, India

07/2024 – 05/2025

- Spearheaded an in-app task orchestration framework for B2B Acrobat users using service workers and local caching, driving a **45% increase in task completion** on a flow tied to **\$500K+ in annual team revenue**.
- Redesigned the A/B experimentation platform into microservices on Docker and Kubernetes, contributing to **\$200K+ in annual infrastructure savings** and improved scalability.
- Drove **Individual-to-Teams (I2T)** conversion and SMB user detection in Acrobat Reader, streamlining team onboarding and lifting collaboration-conversion rates.

Member of Technical Staff, Adobe – Noida, India

07/2022 – 07/2024

- Migrated legacy C++-based UI components to ReactJS, removing **20K+ lines of legacy code** and cutting feature-delivery time by **~40%**.
- Established unit and integration testing with Jest and React Testing Library, raising coverage above **85%** and reducing production regressions.

Skills

C#, C++, Java, Python, JavaScript, SQL, .NET 8, ReactJS, Node.js, Azure, Kubernetes, Cosmos DB, Event Hub, Microsoft Graph, OAuth 2.0 / OIDC, MISE, Managed Identity, Distributed Systems, Claude API, LLM & Agentic Pipelines

Education

Netaji Subhas Institute of Technology, BE in Information Technology – GPA: 8.02/10.0

07/2018 – 05/2022