

Paritosh Kumar

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Profile

Software Engineer with 6+ years of experience building scalable backend systems, cloud-native platforms, and distributed services at Microsoft and Omnisia. Specialized in C#, .NET, distributed systems, Azure cloud infrastructure, and enterprise platforms serving millions of users. Recently completed MS in Computer Science with specialization in Artificial Intelligence from Georgia Tech, with hands-on experience in AI-enabled developer tooling, retrieval systems, and semantic search.

Experience

Member of Technical Staff – 3 | Omnisia, Bangalore (Formerly VMware EUC)

September 2023 – Present

- Backend engineer for Workspace ONE UEM, an enterprise endpoint management platform managing 5M+ active devices globally across large-scale enterprise environments.
- Designed and delivered key backend components for Faster Resource Delivery, improving enterprise resource deployment workflows and contributing to successful LA and GA launches.
- Architected and implemented Smart Group Delta Evaluation logic to optimize large-scale device assignment and update computations, reducing unnecessary evaluations and improving backend processing efficiency.
- Contributed to migration of core platform components from modular monolith to microservices architecture, improving deployment isolation, maintainability, and operational resilience.
- Built production-grade C#/.NET backend services with MS SQL Server, focusing on scalability, resiliency, observability, and enterprise-grade reliability.
- Built internal automation and developer tooling to streamline debugging, deployment workflows, and operational troubleshooting across engineering teams.
- Drove code and design reviews, design discussions, and engineering quality initiatives; presented platform initiatives to senior engineering leadership including VPs, directors, and staff engineers.

Software Engineer Consultant – Azure Cloud & AI | Microsoft, Hyderabad

August 2020 – September 2023

- Delivered enterprise-scale cloud and backend solutions for customers including Qatar Smart City, FIFA, MetLife, Munich Re, and Government of Karnataka using Microsoft Azure.
- Developed scalable backend services and APIs using C#/.NET for cloud-native enterprise applications, integrating with distributed services and data platforms.
- Designed and maintained Azure cloud infrastructure with focus on scalability, reliability, CI/CD automation, and operational efficiency.
- Managed and debugged production AKS environments, including deployments, logging, monitoring, infrastructure troubleshooting, and release support.
- Built and optimized CI/CD pipelines and infrastructure automation workflows, improving deployment reliability and reducing manual operational effort across projects.
- Worked across backend, frontend, DevOps, and customer-facing engineering responsibilities, translating ambiguous enterprise requirements into production-ready technical solutions.
- Recognized with Star Consultant, DevOps Champion, and Best Project awards for technical contributions, delivery ownership, and engineering excellence.

Software Engineer Intern | Boston Scientific, Gurgaon

January 2020 – July 2020

- Developed extension applications for Windchill PLM software using Java, JSF, and PrimeFaces in an enterprise software environment.
- Collaborated with cross-functional teams to implement, troubleshoot, and stabilize product lifecycle management workflows.

Education

Master of Science in Computer Science | Specialization in Artificial Intelligence | Georgia Institute of Technology, Atlanta – 2026

Bachelor of Technology in Computer Science Engineering | Sikkim Manipal Institute of Technology, Sikkim – 2020

Projects

AI-Powered API Discovery & cURL Generator

Built an AI-enabled developer tooling system that parses OpenAPI YAML definitions, generates endpoint embeddings, and enables semantic search over internal APIs.

Implemented retrieval logic to map natural-language developer queries to relevant APIs and generate runnable cURL/Bruno samples, reducing manual endpoint discovery effort.

Tech: Python, OpenAPI, Embeddings, Vector Search, Semantic Search, REST APIs

Jira Semantic Ticket Analyzer

Built a semantic analysis tool to process Jira tickets, generate embeddings, and identify related issues using similarity scoring and clustering.

Designed preprocessing, embedding, clustering, and reporting modules to surface recurring product issues, duplicate patterns, and cross-ticket correlations.

Tech: Python, Streamlit, Embeddings, Vector Similarity, Clustering, Jira APIs

Continual Learning for Adaptive Smart Homes

Designed a research-oriented AI system design for adaptive smart homes using continual learning and human-in-the-loop feedback to handle evolving human routines.

Proposed evaluation using public smart-home activity datasets, behavior-drift simulation, and metrics for adaptation accuracy, retention, and forgetting resistance.

Focus: Continual Learning, Human-in-the-Loop AI, Time-Series Activity Recognition, Privacy-Aware ML

Technical Skills

Languages: C#, Java, Python, SQL, TypeScript, JavaScript, C++, Kotlin

Backend & Distributed Systems: .NET, ASP.NET Core, REST APIs, Microservices, System Design, Distributed Systems, Service-to-Service Integration

Cloud & DevOps: Azure, AKS, Docker, Kubernetes, CI/CD, Azure DevOps, GitHub Actions, Infrastructure as Code

Databases & Search: MS SQL Server, PostgreSQL, MySQL, OpenSearch, Vector Search

AI/ML: Machine Learning, NLP, Embeddings, Retrieval Systems, PyTorch

Frontend: Angular, Vue

Certifications: AZ-900, DP-900, AI-900, AZ-204, AZ-400