Arpita KA Singh

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Software Engineer with over 10 years of experience designing and building scalable, reliable, and secure distributed systems across cloud-native and on-prem environments. Proven expertise in Golang, TypeScript, C#, and event-driven architecture. Adept at delivering high-impact APIs, CI/CD pipelines, and telemetry-driven observability in fast-paced, agile teams. Strong communicator and cross-functional collaborator with a focus on performance, quality, and operational excellence.

EDUCATION / CERTIFICATION

M.S in Computer Science & Engineering, Santa Clara University *Sep'17 - Mar'19*

B.E in Information Science & Engineering, Visvesvaraya Technological University *Sep'06 - Jun'10*

SKILLS

Golang | TypeScript | C# | .Net | DotNetCore | Python | SQL | Azure Cloud Technologies | RESTful API | React | CI/CD Pipelines | Apache Kafka | Event-Driven Architecture | Distributed Systems | Microservices Architecture | Client-Server Architecture | Pub/Sub Messaging | OpenTelemetry | Grafana | OAuth | JWT | API Design | Monitoring | Debugging | Threat Modeling

WORK EXPERIENCE

Software Engineer | **Talent.com** *May'25 - Present*

Contributing to the design and development of highly scalable, resilient backend services and APIs for one of the world's fastest-growing job search platforms.

- Architect, build, and maintain high-availability distributed systems using TypeScript and Golang, with a focus on system performance, fault tolerance, and scalability.
- Design and implement RESTful APIs and backend microservices supporting millions of daily users, integrating with relational and NoSQL databases.
- Collaborate closely with front-end engineers and product designers to enhance application performance, usability, and user experience.
- Perform routine code reviews, debugging, and performance optimizations to meet high reliability and security standards.
- Lead technical discussions and contribute to system design reviews with a strong emphasis on software quality, maintainability, and operational excellence.

Software Engineer II | **Microsoft** *Sep'22 - Jan'25*

Led engineering initiatives in the Windows & Devices group, focusing on scalable infrastructure, system reliability, and observability across 10,000+ machines in distributed environments.

- Designed, developed, and maintained services and tools for build scheduling and health monitoring of large-scale distributed systems.
- Delivered scalable RESTful APIs and CI/CD pipelines integrated with authentication (OAuth/JWT) and load balancing capabilities.
- Spearheaded the implementation of telemetry dashboards using OpenTelemetry, Azure Data Explorer, and Power BI to drive data-informed decisions.
- Collaborated with cross-functional teams across engineering, product, and security to deliver secure, high-impact solutions.
- Championed best practices in code quality, technical design, system reliability, and performance optimization.

Software Engineer I | **Microsoft** *Feb'21 - Sep'22*

- Engineered scalable web applications and data processing pipelines using Azure technologies including Logic Apps, Azure Data Explorer, and Azure Functions.
- Designed telemetry and monitoring systems to assess real-time health of applications and services.
- Delivered secure development tools and automation for system hardening, supporting compliance and best practices.
- Contributed to reusable software libraries and design patterns that elevated engineering standards across teams.

Senior Software Engineer | **LTIMindtree** *Feb'11 - Sep'17*

Recognized with the ACE – Best Team award for two consecutive years for leadership in application modernization and cross-functional collaboration.

- Owned full software development lifecycle, including architecture, development, testing, deployment, and support of enterprise systems.
- Led migration from legacy stack to Java 8-based platform, improving system efficiency by 70% and reducing operational costs by 30%.
- Directed cross-team communication with business and engineering stakeholders to streamline technical delivery and ensure alignment.
- Built RESTful web services to streamline data communication between internal tools and external clients.
- Managed end-to-end defect triage and resolution process during development, QA, and production rollout.
- Collaborated cross-functionally with QA, product management, and technical teams to ensure on-time and quality delivery.
- Participated in agile planning, architecture review sessions, and test automation initiatives.