

Pranshu Nijhawan

Engineering Leader | SaaS Architect

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Summary

- Hands-on **engineering leader** with more than **9 years** of experience in IT, providing consulting & delivery of solution architecture, product development, data analytics, cloud architecture & cost optimisation, SaaS and DevOps strategy.
- Currently working at [McKinsey & Company](#) as an **Engineering Manager** and **Architect** of a large scale SaaS platform [Promotion Advisor](#) driving sales and revenue with an uptime of **99.9%**.
- Designed and architected **SearchSphere** a fully configurable **Multi-Tenant Search Platform** using **Typescript**, **Node.JS**, and **PostgreSQL**, leveraging **vectorization** and **Retrieval Augmented Generation (RAG)** techniques to enable both global and dimension-based searching with the ability to onboard new dimensions without any code changes, resulting in a successful decommissioning Elasticsearch, which resulted in cost savings of over \$2 million.
- Engineered a highly scalable and reliable, **Zero-Downtime ETL platform** using **Databricks**, **Spark**, **Azure Data Factory**, and **PostgreSQL** based on Blue/Green slotting strategy processing over **200 million records** across 100+ tables in under **15 minutes** using CDC techniques and dynamic schema allocation strategies.
- Architected **Orchestron**, a high-performance **Data Processing and Explosion** platform utilizing **.NET** and **Spark** on a Kubernetes infrastructure featuring a modular architecture with configurable rules and a plug-and-play design for seamless data transformation and explosion managed by **Generative AI Agents** for intelligent orchestration and rule management.
- Designed and implemented a high-performance **Hybrid Transactional/Analytical Processing (HTAP)** based **Analytics Platform** leveraging **Python**, **Spark**, and **SQL** within Kubernetes-based orchestration enabling real-time forecasting and strategic planning powered by econometric models by analyzing historical data comparators and coefficients with initial analysis completing in under **a minute**, scaling to datasets exceeding **2.8 billion records**.
- Developed an **Intelligent Distributed Release Management Platform**, leveraging **Serverless Functions**, **Azure IoT Hub**, and **Azure CosmosDB** Orchestrating platform updates across **300+ million devices** using scalable techniques such as fan-out/fan-in workflows, backed by robust monitoring frameworks and emergency rollback mechanisms.
- Expert in designing scalable distributed platforms using **domain-driven microservices**, leveraging **React**, **C#**, **.NET**, **Node.js**, and **Spark** ensuring resilience and scalability with serverless and Kubernetes deployments, optimizing performance across data stores like **PostgreSQL**, **SQL Server**, and **Azure CosmosDB**.

Skills

- **Languages:** C#, JavaScript, TypeScript, Python, Java, SQL
- **Frameworks and Tools:** .NET, Node.JS, React, Angular, GraphQL, PostgreSQL, SQL Server, Azure, AWS, Databricks
- **Concepts:** Cloud Architecture, OOPS, Microservices, Domain Driven Architecture, Data Streaming

Professional Experience

McKinsey & Company (March 2022 – Present)

Title: Senior Software Engineer 2

- **Architectural Leadership & Design:** Architected **SearchSphere** and **Orchestron**, utilizing techniques like **vectorization**, **RAG**, **.NET**, **Spark**, and **Kubernetes** for scalable, modular solutions with **AI-driven orchestrations**. Led architectural assessments, ADRs, and tech OKRs to ensure alignment with organizational goals.
- **Team Leadership & Development:** Leading a team of **28 engineers**, including **five tech leads** and **23 developers**, managing skill development, career progression, and overall team performance.
- **Scalable ETL System Engineering:** Engineered a high-performance, **zero-downtime ETL platform** processing over **200 million records in under 15 minutes**, utilizing **Databricks**, **Spark**, **Azure Data Factory**, and **PostgreSQL** based on Blue/Green slotting strategy and CDC techniques to ensure scalability and reliability.
- **Cross-Functional Collaboration & Compliance:** Collaborated with regulatory and compliance teams, such as Infosec and SOC2 audit teams, successfully led the initiative to get the product SOC2 certified.
- **Future Architecture Roadmap Management:** Orchestrated the management of the Future Architecture Runway, optimizing the product roadmap, increasing delivery efficiency by 25%.
- **Performance Optimization & System Redesign:** Led initiatives focused on performance benchmarking, cost optimizations, and system redesigns like Cloud Migrations and centralizing key services and sharable modules.

Condeco, now Eptura (April 2021 – March 2022)

Title: Principal Engineer

- **Architectural Leadership & Design:** Architected an **Intelligent Distributed Release Management Platform** using **Serverless Functions, Azure IoT Hub, and Azure CosmosDB**, orchestrating updates across 300+ million devices.
- **Team Leadership & Development:** Leading a team of **20 engineers**, including **4 tech leads** and **18 developers** across 4 squads, while managing skill development and career progression.
- **Scalable Distributed Platform Engineering:** Engineered scalable distributed systems utilizing **domain-driven microservices, React, C#, and .NET** via Kubernetes and serverless architectures. Optimized performance and availability across data stores like **PostgreSQL** and **Azure CosmosDB**.
- **Cross-Functional Collaboration & System Optimization:** Collaborated with cross-functional teams to design and implement optimized release management workflows and POCs. Worked closely with DevOps, Infrastructure, and Compliance teams to ensure best practices in deployment and monitoring.

Nagarro (December 2019 – April 2021)

Title: Senior Engineer

- Developed diverse web and cloud applications for Nagarro clients across domains such as E-Commerce, Employee Management, and Inventory Systems, utilizing expertise in Angular, Ionic, and .NET Core.
- Established CI/CD pipelines with modern Cloud Computing Implemented database architecture using Code-First/DB-First with EF Core and SQL scripts for schema and stored procedures.

Condeco, now Eptura (September 2018 – December 2019)

Title: Software Engineer

- Lead the design, development, and enhancement of Condeco's Workspace Management Platform, using C#, .NET, React, SQL Server etc.
- Developed scalable microservices using serverless and traditional paradigms. Managed DevOps infrastructure with CI/CD pipelines documented application changes with Data-Flow Diagrams. Contributed to data model architecture.

Gartner (February 2016 – August 2018)

Title: Associate Software Engineer

- Led the design and development of ClearForce, Gartner's Survey Platform, an employee engagement SaaS product using C#, .NET Core, React. Managed UI/functional enhancements and bug fixes.
- Established SQL architecture by crafting Stored Procedures (SPs) and implementing SQL agent jobs for automated interactions between the tool and database.

Certifications

- [Microsoft Certified: Azure Data Engineer Associate](#)
- [AWS Certified Developer - Associate](#)
- [Microsoft Certified: Azure Developer Associate](#)

Educational Qualifications

Gurgaon Institute of Technology & Management

2012 – 2016

B.Tech, Computer Science & Engineering