

Pranshu Nijhawan

Engineering Leader | SaaS Architect

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SUMMARY

Engineering leader with **9+ years** in solution architecture, product development, cloud strategy, and DevOps. **Engineering Manager & Architect** at McKinsey, driving large-scale SaaS with 99.9% uptime. Built SearchSphere & Orchestron, optimizing AI search, ETL, and data processing, saving millions. Expert in microservices, Kubernetes, serverless, and analytics.

EXPERIENCE

Senior Software Engineer 2

March 2022 - Present

McKinsey & Company

- **Architectural Leadership & Design:** Architected SearchSphere and Orchestron using AI-driven orchestration, vectorization, RAG, .NET, Spark, and Kubernetes for scalable, modular solutions. Led architectural assessments, ADRs, and tech OKRs for strategic alignment.
- **Team Leadership & Development:** Leading a team of 28 engineers, including 5 tech leads, overseeing skill development, career growth, and performance management.
- **Scalable ETL System Engineering:** Engineered a zero-downtime ETL platform processing 200M+ records in under 15 minutes using Databricks, Spark, ADF, and PostgreSQL, leveraging Blue/Green slotting and CDC for scalability and reliability.
- **Cross-Functional Collaboration & Compliance:** Led SOC2 certification initiative, collaborating with Infosec and compliance teams to ensure regulatory alignment.
- **Future Architecture Roadmap Management:** Orchestrated the management of the Future Architecture Runway, optimizing the product roadmap, increasing delivery efficiency by 25%.

Principal Engineer

April 2021 – March 2022

Condec, now Eptura

- **Architectural Leadership & Design:** Architected an Intelligent Distributed Release Management Platform with Serverless Functions, Azure IoT Hub, and CosmosDB, orchestrating updates for 300M+ devices.
- **Team Leadership & Development:** Leading a team of 20 engineers, including 4 tech leads and 18 developers across 4 squads.
- **Scalable Distributed Platform Engineering:** Engineered scalable distributed systems using React, C#, .NET, and serverless architectures.

Senior Engineer

December 2019 – April 2021

Nagarro

- Developed web and cloud applications for Nagarro clients across E-Commerce, Employee Management, and Inventory Systems using Angular, Ionic, and .NET Core.
- Established CI/CD pipelines and implemented database architecture using Code-First/DB-First with EF Core and SQL scripts for schemas and stored procedures.

Software Engineer

September 2018 – December 2019

Condec, now Eptura

- Lead the design, development, and enhancement of Condec's Workspace Management Platform, using C#, .NET, React, SQL Server etc.
- Developed scalable microservices, managed CI/CD infrastructure, documented with Data-Flow Diagrams, and contributed to data architecture.

Associate Software Engineer

February 2016 – August 2018

Gartner

- Led the design and development of ClearForce, Gartner's Survey Platform, an employee engagement SaaS, using C#, .NET Core, and React, managing UI enhancements and bug fixes.

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

KEY ACHIEVEMENTS

SearchSphere

Designed and architected 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**.

Zero-Downtime ETL platform

Engineered a highly scalable and reliable 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.

Orchestron

Architected 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.

Intelligent Distributed Release Management Platform

Developed a 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.

CERTIFICATIONS

- **Microsoft Certified: Azure Data Engineer Associate**
- **Microsoft Certified: Azure Developer Associate**
- **AWS Certified Developer - Associate**

EDUCATION

Gurgaon Institute of Technology & Management

2012 – 2016, B.Tech, Computer Science & Engineering