

# Pranshu Nijhawan

Technical Architect

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## Summary

**Hands-on Technical Architect** with **10 years** of experience in the design of scalable **SaaS** platforms, and **cloud-native** products. I have led the **architecture** for complex, high volume systems, defined long term technical direction plus supported teams in the delivery of solutions that meet real world scale and reliability requirements.

- Experienced in **TypeScript**, **C#**, **Python**, **Spark**, **Databricks**, **PostgreSQL** and modern front-end stacks.
- Designed 5+ **SaaS** products, among them McKinsey's **Promotion Advisor**, Eptura's **Connect** etc. Each product created clear business value using advanced analytics, **machine learning** or **IoT**.
- I have guided engineering teams across different locations building microservices, reliable **ETL** pipelines, real time analytics, secure APIs and large **IoT** systems.

## Experience

McKinsey & Company | March 2022 – Present

**Principal Architect I**

*Previously: Senior Software Engineer II, Senior Software Engineer I*

"At McKinsey I lead the technical direction for **Promotion Advisor**, a flagship **Periscope** product used by CPG and retail clients."

- **Design of a Multi-Language Backend Architecture:** Defined the long-term architectural roadmap for a complex, data heavy ecosystem where I coordinated the interoperability of a backend that uses multiple languages - **Node.js**/**Fastify** for scalable microservices and **.NET**/**C#** for **high performance** batch processing.
- **Implementation of a Scalable Blue-Green ETL Platform:** Built a scalable **ETL** platform that uses **Databricks**, **Azure Data Factory** and **PostgreSQL** that switches between two identical production slots, Blue or Green - one slot runs the live service while the other receives the new release. The system loads more than **200 million** records from more than 100 tables in under 15 minutes.
- **Development of a Micro-Frontend-Based UI Architecture:** Led the design of data heavy user interfaces based on Micro Frontend **architecture** using **React**, **TypeScript**, **Redux** and **AG Grid**.
- **Establishment of a GitOps-Driven Delivery Framework:** Established the delivery system - putting **GitOps** at the center. I designed all infrastructure as plain **Terraform** code and set up one touch release pipelines in **Azure DevOps**, **Helm** besides **ArgoCD**.
- **Advancement of Security-First Practices and Unified Observability:** Established a "**Security**-First" culture by adding **Wiz** besides **SonarQube** to **CI/CD** pipelines and created a single **observability** rule set with **Dynatrace** and **OpenTelemetry**.
- **Leadership Contributions and Career Progression:** Got promoted from Senior Software Engineer to **Principal Architect** in 3.5 years to build a culture where people take responsibility and think about the whole system. Personally guided senior engineers on how to choose **system design**s, linked product needs to what the code can deliver plus earned strong trust from every stakeholder.

TypeScript

Node.JS

C#

.NET

React

Azure

Databricks

PySpark

SparkSQL

PostgreSQL

Kubernetes

Principal Engineer

"At Eptura, I rebuilt Condeco Connect, the meeting room booking product. I replaced the old single tenant system with cloud native services split into scalable microservices."

- **Cloud-Native Transformation for Enhanced Client Uptime:** Led re-**architecture** of legacy **SaaS** to a **cloud-native** microservices solution on **Azure Kubernetes Service (AKS)**. Achieved **60%** faster recovery and significantly enhanced system uptime, critical for client operations.
- **Global Distributed Release Management System:** Engineered and deployed a system (**Azure IoT Hub**, **Serverless Functions**, **Azure CosmosDB**) orchestrating synchronized updates across **300M+ IoT** devices globally. Ensured seamless and reliable software delivery to a vast client network.
- **Led & Mentored Engineering Squads:** Directed a team of 20 engineers (4 tech leads) across four product squads. Implemented **mentorship**, improving team retention by **20%** and fostering engineering growth, impacting product quality for clients.

C#	.NET	React	Angular	Azure	Azure CosmosDB	Azure Functions	SQL Server
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Senior Engineer

"At Nagarro, I delivered full-stack applications for diverse clients, enhancing user experience and streamlining development. My role involved hands-on development and implementing modern software engineering practices to improve efficiency and reliability of client solutions."

- **High-Performance Full-Stack Applications:** Developed full-stack web applications (**Angular**, **.NET Core**, **PostgreSQL**, **Ionic Framework**) for e-commerce and HR clients.
- **CI/CD & IaC for Reliable Client Deployments:** Established **CI/CD** pipelines and **Infrastructure as Code (IaC)** practices. Reduced deployment failures by **70%**, ensuring stable and predictable software releases for client projects.

C#	.NET	Angular	Ionic Framework	AWS	PostgreSQL	DyanmoDB	Fargate
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Software Engineer

"During this tenure at Condeco, I focused on core development and optimization of the Condeco Connect (meeting room booking software), contributing to its scalability and reliability for a rapidly growing customer base."

- **Scalable Microservices for 3x Customer Growth:** Designed and developed microservices (**C#**, **.NET**, **React**, **SQL Server**) for the workspace **SaaS** platform. Supported **3x** customer scale-up, handling increased user demand.
- **Optimized CI/CD & Data Models:** Maintained **CI/CD** pipelines and implemented data model optimizations. Resulted in faster, more reliable software releases and improved system performance for client-facing features.

C#	.NET	React	Angular	Azure	Azure CosmosDB	Azure Functions	SQL Server
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Associate Software Engineer

Previously: Intern

"At Gartner, I contributed to the development of the ClearForce platform (proprietary survey and analytics tool for HR consulting), focusing on improving data accuracy and automating workflows for clients."

- **Core SaaS Analytics Tool Development:** Contributed backend development for ClearForce (**C#**, **.NET Core**, **React**), improving employee survey data accuracy by **60%**. Critical for providing data-driven insights to HR clients.
- **Automated SQL Workflows:** Developed and automated SQL workflows (SPs, SQL agent jobs). Saved over 240 engineering hours annually in manual data processing, improving data delivery efficiency for clients.

C# .NET React SQL Server AWS

Core Competencies

**SaaS & Architecture:** Microservices, Data Lakehouse, Event-Driven Systems, Serverless,DDD, HTAP.

**Cloud & Infrastructure:** Azure, AWS, Kubernetes, DevOps, CI/CD, IaC, Observability.

**Data Engineering & Intelligence:** Spark, Databricks, ELT/ETL, PostgreSQL, Real-time Analytics, Vectorization, RAG.

**Tech Stack:** C#, Python, TypeScript, JavaScript, Node.js, .NET Core, React, Angular, SQL.

**Compliance & Security:** SOC2, InfoSec, Secure SDLC, Audit Automation.

Certifications

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

Educational Qualifications

**Bachelor of Technology (B. Tech), Computer Science & Engineering**

Gurgaon Institute of Technology & Management | 2012 – 2016