Pranshu Nijhawan

Engineering Leader | SaaS Architect





Email: mail@pranshunijhawan.dev
Portfolio: https://www.pranshunijhawan.dev/
Phone: +91-9999966272
LinkedIn: https://www.linkedin.com/in/pranshunijhawan/

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 <u>McKinsey & Company</u> as an <u>Engineering Manager</u> and <u>Architect</u> of a large scale SaaS platform
 <u>Promotion Advisor</u> 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.
- 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 fanout/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 Al-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.

- 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

Title: Principal 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

B.Tech, Computer Science & Engineering

2012 - 2016