

# AYUSH SAXENA

SOFTWARE ENGINEER

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## Professional Experience

### MAQ Software, Noida

Sept 2024 - Present

Software Engineer 1

- **Data Ingestion Pipeline & Automation:** Designed automated pipelines in **Azure Data Factory** for ingesting large datasets; used **Databricks (PySpark)** for transformations and stored results in **Delta tables (ADLS Gen2)**, reducing manual effort by 95%.
- Wrote optimized stored procedures and SQL queries for incremental data pulls via **Azure Data Share**, cutting ingestion time by 90%.
- Worked with **ReactJS** to build tools for Customers
- **Durable Functions & Parallel Processing:** Created long-running workflows using **C .NET Durable Functions** to orchestrate parallel API calls, reducing processing time by 95% while leveraging **Managed Identity** for security.
- **Azure Synapse Analytics:** Built scalable warehousing solutions using **Synapse SQL Pools, Pipelines, and Spark**, optimizing for large-scale data processing.
- **MVC Web App Development:** Developed secure MVC applications using **C .NET and ReactJS** integrated with **Azure SQL Server, Microsoft Entra ID, and Key Vault** for secret management.
- **Best Practices & CI/CD:** Followed coding best practices and version control via **Git in Azure DevOps**, streamlining deployments through automated CI/CD pipelines.

## Projects

### GitOps CI/CD Pipeline

Sept 2024

- Built and executed a **Jenkins CI/CD pipeline** integrated with **GitHub** for automated build and deployment workflows.
- Leveraged **Docker** for containerization and deployed services using **AWS CLI**, ensuring seamless integration and delivery.
- Followed GitOps principles to maintain infrastructure and application configurations as code.
- **Tech Stack:** Jenkins, Docker, GitHub, CI/CD, AWS, CLI

### Rely-Cab Booking System

Oct 2023 – Nov 2023

- Created a cab booking platform enabling users to register rides by entering details like name, email, source, and destination
- Integrated **Dijkstra's Algorithm** for route optimization and cost-efficient ride planning.
- Designed responsive UI and backend APIs to handle booking, routing, and ride status.
- **Tech Stack:** HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB

## Technical Skills

**Programming Languages:** Java, C++, Python, SQL

**Web Development:** HTML, CSS, JavaScript, React.js, Node.js, Express.js, Flask, ASP.NET, MVC, API

**Frameworks & Big Data:** PySpark, Hadoop, Spark, Databricks

**Cloud & DevOps:** Azure (Functions, Logic Apps, ADF, Synapse, Key Vault, ADLS Gen1/Gen2, Blob Storage, CosmosDB, Monitor, Application Insights), AWS, Azure DevOps, Jenkins, Docker, Kubernetes

**Databases:** MongoDB, MySQL, Azure SQL Server, SQL Server Management Studio (SSMS)

**Data Analytics & Visualization:** Power BI, Microsoft Fabric, Power Apps, Power Automate

**Version Control & Tools:** Git, VS Code, Eclipse, Jupyter Lab

**Computer Science Fundamentals:** Data Structures and Algorithms, OOPS, Operating System, DBMS, System Design

## Education

### Matriculate

SSMV, Shahjahanpur, Uttar Pradesh

2018

85.6%

### Intermediate

SSMV, Shahjahanpur, Uttar Pradesh

2020

82.4%

### B.Tech in Computer Science and Engineering

Chitkara University, Baddi, Himachal Pradesh

2021–2025

CGPA: 8.6/10