

# Paurush Muley

Software Development Engineer — .NET 8 — Cloud — Distributed Systems — Agentic AI  
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## Professional Summary

Software Development Engineer with 2+ years of enterprise experience building scalable cloud-native microservices, event-driven distributed systems, and AI-enabled platforms using .NET Core, ASP.NET Web API, Node.js, React, Python, Azure, and AWS. Proven track record eliminating concurrency bottlenecks at Centralogic to deliver an audited +30% system throughput boost. Expert in containerization with Docker and Kubernetes, automated CI/CD pipelines, and integrating production Agentic AI and Retrieval-Augmented Generation (RAG) systems that reduced operational support effort by 60%.

## Skills

**Languages:** C#, TypeScript, JavaScript (ES6+), Python, Java, SQL (T-SQL, PostgreSQL)

**Cloud & DevOps:** Microsoft Azure (App Services, Functions, CosmosDB), AWS, Docker, Kubernetes (AKS), CI/CD

**Backend Engineering:** .NET 8 / .NET Core, ASP.NET Web API, Node.js, RESTful APIs, Microservices, Clean Architecture

**Databases & Caching:** PostgreSQL, Microsoft SQL Server, MongoDB, Azure CosmosDB, Redis Distributed Cache

**Frontend & UI:** React.js, Next.js, Angular, TypeScript, Tailwind CSS, HTML5 & CSS3

**AI & Modern Workflows:** GenAI, Agentic AI, LLMs, LangChain, LangGraph, RAG, OpenAI APIs, Vector Databases

**Event Streaming:** Apache Kafka, Azure Service Bus, Message Queues, Event-Driven Architecture, WebSockets

## Experience

### Centralogic India Pvt Ltd

Software Engineer | Jul 2024 – Present

- Architected and deployed scalable microservices and cloud-native applications using .NET Core, ASP.NET, Node.js, and Azure, increasing overall system throughput by +30%.
- Engineered decoupled asynchronous message streaming workflows using Apache Kafka and Azure Service Bus, eliminating high-volume transaction bottlenecks.
- Built and deployed enterprise Agentic AI workflows using LangChain, LangGraph, and RAG pipelines, reducing operational support ticket volume by 60%.
- Profiled database queries in PostgreSQL and optimized Redis distributed caching, slashing p99 API latencies and improving platform reliability.
- Managed container orchestration with Docker and Kubernetes (AKS), establishing autoscaling rules and boosting infrastructure resilience by 40%.
- Automated CI/CD release pipelines via GitHub Actions and Azure DevOps, reducing deployment cycles by 50% with zero-downtime rolling updates.
- Collaborated cross-functionally on domain-driven design, Clean Architecture, and enterprise RESTful API specifications.

### Alphabee Technologies

Web Developer Intern | Feb 2023 – Jul 2024

- Developed full-stack web applications using React.js, Node.js, SQL, and PHP, accelerating feature delivery turnaround by 20%.
- Built modular backend REST APIs and automated database query modules, cutting response latencies by 30%.
- Integrated responsive frontend user interfaces with scalable backend microservices, optimizing cross-browser performance.
- Diagnosed production issues and conducted systematic performance tuning, eliminating operational disruptions by 50%.

## Projects

### UK Energy Supplier CRM Software

.NET Core, Azure, RAG, Kafka, Microservices

- Architected high-volume CRM platform using .NET Core microservices, REST APIs, and Azure Functions serverless triggers to streamline energy billing workflows.
- Integrated RAG AI knowledge retrieval and asynchronous event bus, reducing customer inquiry resolution turnaround time by 45%.

### Centra Assist – Intelligent HRMS Chatbot

GenAI, LLMs, LangChain, LangGraph, RAG

- Engineered autonomous enterprise HR chatbot using LangChain, LangGraph stateful agents, and Azure Bot Service, cutting manual inquiry workload by 60%.
- Implemented hybrid vector search and semantic document grading across 500+ policy documents with sub-second response latency.

### CentraJob – Intelligent Recruitment Platform

.NET 8, Azure, LLMs, GenAI, Web APIs

- Engineered full-lifecycle recruitment and candidate assessment platform featuring an automated AI interview screening bot.
- Built backend microservices and cloud workflow automations, accelerating candidate screening velocity by 35%.

## Certifications

- AWS Certified Cloud Practitioner
- Supervised Machine Learning – Stanford Online
- Cyber Security Professional – Google

## Education

### B.E. Computer Engineering

MVP's KBT College of Engineering

2019 – 2023 | First Class with Distinction