ABHISHEK PANDA

Lead Backend Engineer / Technical Architect

.NET Core | Microservices | Azure | DevOps

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SUMMARY

- **Technical Architect** with **12+ years** of experience designing **cloud-native distributed platforms** on **Azure** specializing in **.NET Core microservices, event-driven architecture,** and **secure API platforms.**
- Proven track record delivering large-scale enterprise systems for **GCC-aligned programs**, leading engineering teams, defining architecture roadmaps, modernizing legacy platforms, and achieving 20–40% performance gains, up to 35% downtime reduction, and $1.2M+ cloud cost savings.
- Extensive experience across **Banking, Finance, Airlines, HealthCare, SaaS** and **Automobile domains,** working in compliance-driven environments with a strong focus on reliability, observability, security, and governance.

PROFESSIONAL EXPERIENCE

Freelance Consultant – Backend & Cloud Architecture

CropXon Innovations

📅 08/2025 - Present   📍 Bangalore, India (Remote)

CropXon Innovations is a privately held technology company used for independent consulting and experimentation in cloud-native backend architectures, API platforms, and AI integrations.

- Provided independent consulting on backend architecture and cloud-native system design.
- Designed reference microservice architectures using .NET Core, Azure, and AWS.
- Implemented secure API platforms (OAuth2, JWT, rate limiting, secrets governance).
- Prototyped AI/LLM integrations and RAG-based workflows at the architectural level.
- Focused on scalability, cost optimization, and production readiness.

Technical Architect / Engineering Lead

Solera

📅 08/2022 - 08/2025   📍 Bangalore, India

Automotive / Fleet Management – GFP SmartDrive (Enterprise Platform)

- Architected cloud-native **.NET Core microservices with CQRS patterns** and other different patterns **and** deploying services on Microsoft **Azure** using App Services, **Azure Functions, Azure SQL, Azure Service Bus,** and **Azure API**
- **Management** for large-scale fleet management platforms with LLD (Low level Design) and also HLD (High Level Design) for better architect.
- Designed event-driven, high-availability architectures enabling **real-time fleet telemetry ingestion, stream processing,** and dispatch optimization.
- Implemented enterprise-grade API security including OAuth2, JWT validation, rate limiting, IP filtering, and policy enforcement.
  Led **DevSecOps** and **CI/CD** automation using Azure DevOps, Docker, Kubernetes
- **(AKS)**, and Terraform, delivering zero-downtime **blue-green** and **rolling deployments.**
- Provided architectural leadership to frontend teams using Next.js and TypeScript, building real-time operational dashboards and analytics views. Established observability, monitoring, and reliability standards using Azure
- Monitor and Application Insights, with proactive alerting, logging, and RCA workflows.
  Improved platform performance by approximately 20% and delivered significant
- cloud cost savings through capacity planning, right-sizing, autoscaling, and resource optimization.
  Led and mentored **more than 18 engineers** across backend, frontend, cloud, and DevOps teams in a distributed enterprise environment across different countries like **Spain,, Mexico, Dubai, USA, India.**

ARCHITECTURE HIGHLIGHTS

- Designed cloud-native .NET Core microservices platforms for mission-critical enterprise workloads across banking, aviation and automotive domains.
- Implemented event-driven architecture using Azure Service Bus / Kafka for decoupled integrations, burst-load handling and reliable message processing.
- Standardized API platform using Azure API Management with throttling, JWT validation, routing rules and policy-based governance.
- Established observability with Azure Monitor, Application Insights and proactive alerting — improving reliability and faster RCA.
- Led modernization of legacy monolith services into scalable, cloud-ready microservices with automated CI/CD and zero-downtime deployments.

KEY BUSINESS IMPACT

- Reduced production downtime by **up to 35%** through observability, diagnostics and proactive alerting.
- Improved platform performance by **20–40%** via refactoring, right-sizing and workload tuning.
- Delivered **$1.2M+ cloud cost savings** through optimization, modernization and resource governance.
- Led and mentored **10–18 engineers** across backend, cloud and DevSecOps teams in complex, regulated environments.
- Strengthened release reliability using blue-green and canary deployments with automated rollback strategies.

TECHNICAL SKILLS

ARCHITECTURE & PATTERNS :

Microservices, Event-Driven, DDD, API Platforms, Saga, Outbox, Resilience (Retry, Circuit Breaker), High Availability

BACKEND PLATFORMS

.NET Core, C#, EF Core, REST, gRPC, Messaging, SQL Server, PostgreSQL

CLOUD (Azure & AWS)

APIM, AKS/EKS, Functions/Lambda, Service Bus, Kafka, SQL/RDS, Blob/S3, Key Vault/KMS, Monitoring & Observability

DEVSECOPS & RELIABILITY

Git, Docker, Kubernetes, Terraform, Azure DevOps / GitHub Actions, CI/CD, SonarQube, Trivy, App Insights, Prometheus, Grafana

Security Protocols & IAM

OAuth2, OpenID Connect, JWT, TLS, Identity & Access Management, Policy Enforcement, Secrets Governance

AI/ML (Architecture Exposure):

ML.NET, Azure AI Services, OpenAI, Claude and Local LLM integration, RAG concepts .

PROFESSIONAL EXPERIENCE

Assistant Vice President / Technical Architect
Wells Fargo

📅 05/2020 - 07/2022   📍 Hyderabad, India

Wealth & Investment Management Technology : WIMT

- Architected and managed **14+ mission-critical brokerage platforms** in a regulated environment.
- Designed **event-driven microservices** using **.NET Core, Kafka,** and **AWS Lambda** for analytics, trade workflows, and batch automation with
- Asynchronous Programming .
  Built enterprise cloud infrastructure using **AWS IAM, KMS, VPC, EC2, SQS,**
- **RDS, CloudWatch**, ensuring secure and compliant deployments.
  Implemented strict **security baselines, coding standards**, **architecture**
- **governance**, and cross-team engineering practices.
  Led 24x7 **AMS operations**, production reliability, RCA, SLA governance, and
- incident/problem management.
  Led **blue-green** and **canary deployment strategies** with automated rollback
- for high-risk banking workloads.
  Delivered **40% server efficiency** improvement and **$500K+ annual AWS cost**
- **savings** via resource right-sizing and autoscaling strategies.
  Managed and mentored an engineering **team of 10+ developers** across backend, cloud, and automation from different countries.

Lead Consultant
Virtusa

📅 08/2018 - 05/2020   📍 Doha, Qatar

Qatar Airways (PAX Disruption Management System -GCC Aviation Program)

- Architected **Azure-based .NET Core microservices** for a **GCC national carrier**, replacing legacy monolithic systems and improving modularity, scalability, and operational resilience.
- Designed **secure, production-grade API platforms** using Azure API Management, implementing throttling, routing rules, OAuth2, JWT validation, and **enterprise policy-based governance aligned with GCC aviation and security standards**.
- Built **serverless, event-driven processing pipelines** using Azure Functions and Service Bus to enable **real-time passenger disruption handling** across large-scale airline operations.

- Led modernization of legacy .NET Framework modules to .NET Core, improving performance, maintainability, and **long-term platform sustainability in a regulated aviation environment**.

Software Engineer
Conduent

📅 09/2014 - 07/2018   📍 Bangalore, India

METLIFE (Healthcare/Insurance Systems)

- Built scalable REST APIs supporting policy, claims, billing, and underwriting.
- Delivered responsive React UIs for internal operations, improving workflow speed.
- Developed AWS Lambda workflows for event-driven claims processing.
- Implemented diagnostics, structured logging, and exception frameworks, reducing downtime by 35%.
- Designed SQL Server stored procedures and optimized complex queries.

Associate Software Engineer
Conduent

📅 09/2014 - 07/2018   📍 Bangalore, India

Bank of America (BOFA) – Financial Workflow Automation

- Developed enterprise modules in .NET for credit operations and financial workflows.
- Automated document processing and approvals, reducing manual effort by 40%.
- Implemented secure API integrations with internal BOFA services using token-based authentication.
- Optimized SQL workloads, improving transaction performance by 30%.
- Strengthened audit readiness by building compliance-friendly logging patterns.

TECHNICAL LEADERSHIP

- Mentored engineers on architecture best practices, reviews, and code quality.
- Led design reviews and technical decision forums across multiple teams.
- Partnered with product owners and business stakeholders to shape solutions.
- Drove alignment across security, DevOps, and application teams.
- Guided modernization and migration strategies for legacy systems.

AWARDS

🏆 **Solera Employee Of the Month : May 2024**

💎 **Wells Fargo Employee of the Year : 2021**

EDUCATION

B.TECH ComputerScience
Biju Patnaik University of Technology, Odisha
📅 2010 - 2014

GPA
7.2 / 10.0

CERTIFICATIONS

AZ-305: Azure Solutions Architect Expert

SAA-C03 : AWS Certified Solutions Architect - Associate

FIND ME ONLINE

🌐 **Portfolio**
https://www.abhishekpanda.com/

GitHub
abhishekpandaOfficial

in **Linked In**
abhishekpandaofficial

OWN PROJECTS

Proxinex

📅 Present   📍 Bangalore, India

🔗 https://www.proxinex.com/

Proxinex is an **AI Intelligence Control Plane** that provides an intelligent routing layer for AI queries, enabling developers and enterprises to direct requests to optimal models, assess result quality through trust scoring, and gain precise visibility into usage cost. It supports scalable and cost-efficient integration of multiple AI/ML models into production systems.