ABHISHEK PANDA

Technical Architect / Full Stack Architect | Azure & AWS Cloud | Microservices | DevSecOps | ML.NET

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SUMMARY

- **Technical Full Stack Architect** with **12+ years** designing and delivering large-scale enterprise platforms across Banking, Airlines, Fintech, Automotive, and **GCC** public-sector aligned environments. Specialized in **.NET Core**, **Azure/AWS cloud architecture**, **microservices**, event-driven systems, and high-availability distributed platforms supporting millions of transactions.
- Proven track record leading **10–18 engineer teams**, executing end-to-end cloud transformations, strengthening zero-trust security baselines, and driving **$1.2M+ in cloud cost savings** through optimization, right-sizing, and modernization.
- Known for architecting resilient, fault-tolerant systems that reduce production downtime by **up to 35%**, improve performance by **20–40%**, and elevate reliability through observability, automation, and DevSecOps engineering.
- Experienced in **regulated environments** (**Banking**, **Aviation**, Compliance-heavy **GCC projects**) with strong governance discipline—PCI, SOX, audit readiness, secure SDLC, and high-stakes release cycles. Adept at aligning technology with business value, managing global stakeholders, and delivering scalable, future-ready platforms.

EXPERIENCE

Technical Architect / Engineering Lead
Solera

📅 08/2022 - 11/2025   📍 Bangalore, India

Automotive / Fleet Management : GFP-Smart Drive

- Architected cloud-native .NET Core microservices on Azure using App Services, Functions, Azure SQL, Service Bus, and API Management.
- Designed event-driven, high-availability architecture for real-time fleet telemetry and dispatch optimization.
- Implemented strong API security: OAuth2, JWT validation, rate limiting, IP filtering.
- Spearheaded CI/CD automation with Azure DevOps, Docker, Kubernetes, Terraform; delivered zero-downtime deployments.
- Defined Angular and TypeScript frontend architecture for real-time dashboards.
- Owned observability: Azure Monitor and Application Insights with proactive alerting.
- Improved system performance by 20% and delivered significant cloud cost savings via right-sizing and scaling optimizations.
- **Led and mentored a team of over 18 engineers** across backend, frontend, and cloud.

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.
- 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.
- Improved processing efficiency by 35% through architecture modernization and workload tuning.
- 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.

TECHNICAL SKILLS

Enterprise Architecture:
Microservices • Distributed Systems • High Availability • System Modernization • Legacy Migration • API Architecture • Event-Driven Architectures • Domain-Driven Design (DDD)

Backend & Platforms (.NET CORE)
C# • ASP.NET Core • Web API • EF Core • LINQ • REST Services • gRPC • Middleware Design • Event Processing

FRONT END : UI/UX
Angular • TypeScript • HTML5 • Bootstrap • Tailwind CSS • React

AZURE CLOUD
App Services • Functions • AKS • APIM • Service Bus • Event Grid • Azure SQL • Blob Storage • Key Vault • Entra ID • RBAC • Azure Monitor • App Insights • VNet • Load Balancer • GovCloud

AWS CLOUD
EC2 • Lambda • ECS/EKS • S3 • RDS • DynamoDB • API Gateway • SQS • SNS • IAM • KMS • VPC • CloudWatch • CloudTrail • Step Functions • ECR • Secrets Manager • Systems Manager (SSM) • AWS GovCloud (US)

DevSecOps & Automation
Git • Docker • Kubernetes • Terraform • Azure DevOps • GitHub Actions • Jenkins • Helm • ArgoCD • Canary/Blue-Green Deployments • CI/CD Pipelines • Security Hardening • Trivy • SonarQube

Observability & Monitoring
Datadog • Prometheus • Grafana • CloudWatch • Azure Monitor • Application Insights • Logging/Tracing Standards

Security Protocols & IAM
OAuth2 • OpenID Connect • JWT • TLS • Identity & Access Management • Policy Enforcement • Secrets Governance

DATABASES
SQL Server • PostgreSQL • MongoDB • DynamoDB • AWS RDS

UNIT TEST & QUALITY CHECK
xUnit • Test Automation • CI Linting • Code Coverage • Static Analysis (SonarQube)

Developer Tools
Visual Studio 2022 • VS Code • Postman • SSMS • DBeaver • JIRA • Azure Boards • ServiceNow

EXPERIENCE

Lead Consultant
Virtusa

📅 08/2018 - 05/2020   📍 Doha, Qatar

Qatar Airways (Airline PAX Disruption Management System)
- Architected **Azure-based .NET Core microservices** replacing legacy monolithic services, improving modularity and scalability.
- Designed secure, production-grade APIs using **Azure API Management**, implementing throttling, routing rules, OAuth2, JWT validation, and policy-based governance.
- Built **serverless event-processing pipelines** using Azure Functions + Service Bus enabling real-time disruption handling.
- Migrated several legacy .NET Framework modules to modern **.NET Core** with improved performance and maintainability.
- Improved operational efficiency by standardizing integration flows across internal airline systems.

Associate Consultant
Virtusa

📅 08/2018 - 05/2020   📍 Bangalore, India

CITIBANK : Financial & Business Reporting Platform
- Engineered microservices using .NET Core, Angular, XUnit aligned with compliance.
- Architected a unified analytics platform consolidating multi-source financial data.
- Delivered scalable microservices using .NET Core, Angular, and XUnit.
- Built automated approval and audit workflows aligned with compliance.
- Optimized AWS workloads using Lambda, SQS, EKS, RDS, API Gateway.
- Improved reporting accuracy by 30% with clean data modeling.
- Automated 40% of manual reporting tasks using event-driven triggers.
- Strengthened cloud posture with IAM hardening and encrypted pipelines.
- Migrated legacy workloads to AWS (Lambda, SQS, API Gateway, EKS, RDS).
- Reduced system errors by 30% with enhanced automation and QA frameworks.
- Cut infrastructure costs by 20% via microservices re-architecture.

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.

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

12th
Council of Higher Secondary Education

📅 2007 - 2009

GPA **8.1** / 10

10th
HSE, Odisha

📅 2004 - 2007

GPA **9.3** / 10

CERTIFICATION

Azure Solutions Architect (AZ-305) – Pursuing

AWS Solutions Architect – Associate – Pursuing

LANGUAGES

English
Native   ⚫⚫⚫⚫⚫

ADDITIONAL SKILLS

AI/ML in .NET Ecosystem:

ML.NET, Azure AI Services, OpenAI API Integration

NLP , LLMs & RAG

Tokenization, Transformers, MCP, OpenAI GPT, Prompt Engineering, OpenAI Functions, Semantic Kernel, RAG, LangChain, LangGraph.

AGENTIZATION

Multistep Planning (Workflow-based Reasoning), n8n, Crew AI, Autonomous AI Agents, Language Model Interfaces (Claude, Open AI, Mistral, Azure Open AI), Pinecone / FAISS (Vector stores).

FIND ME ONLINE

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

🐙 **GitHub**
abhishekpandaOfficial

in **Linked In**
abhishekpandaofficial