Prakash

Technical Architect

A highly accomplished Principal Architect with over 20 years of international experience in delivering digital solutions, cloud-native development, and microservices for Fortune 500 clients. Expert in AI, Machine Learning, IoT, cloud migration (AWS, Azure), and serverless architecture, with a proven track record of leading large-scale projects and cross-functional teams across global markets.

Educational Qualification:

MBA – Case Western Reserve, Cleveland, OH, USA
Masters in Engineering – BITS Pilani, India
Bachelors in Engineering – BITS Pilani, India

Technical Skills

Programming Languages: Java, Python, NodeJS, Go, React

Cloud Technologies: AWS (Lambda, Fargate, API Gateway, Sagemaker, EKS, S3, DynamoDB, Redshift, IAM, CodePipeline), Azure (Functions, IOT Central, AI Studio, App Service, AKS)

Machine Learning: AWS Sagemaker, Azure ML, AutoML, MLOps

Containers & Orchestration: Docker, Helm, Kubernetes (K8s), Portainer, Rancher

Event-Driven Architecture: AWS SNS, SQS, Event Store, CQRS

AI Tools: OpenAI (ChatGPT-4, LangChain, Semantic Kernel)

DevOps: Terraform, CI/CD pipelines, AWS CodePipeline, Azure DevOps

Database Technologies: DynamoDB, Redshift, Aurora, Elasticache, Oracle

Security: Zero Trust Security, AWS WAF, RBAC, Entra

Expertise

Cloud-Native Development: Extensive experience in cloud migration, serverless architectures, and microservices using AWS and Azure.

Expertise:

Cloud-Native Development: Extensive experience in cloud migration, serverless architectures, and microservices using AWS and Azure.

Machine Learning & AI: Led AI/ML practices, delivering SaaS solutions with advanced ML models, MLOps pipelines, and cloud-based analytics.

Event-Driven Systems: Architected and implemented event-driven architectures using CQRS, Fanout patterns, and event sourcing for high performance.

Automation & Infrastructure: Spearheaded automation initiatives with Terraform, introduced CI/CD pipelines, and optimized infrastructure costs by up to 80%.

Cross-Functional Leadership: Managed global teams across the USA, UK, Germany, India, South Korea, and more, ensuring project success through collaboration and strategic planning.

Cost Optimization: Delivered projects with significant cost savings through architectural re-design, cloud-native services, and efficient resource allocation.

Work Experience:

Principal Architect (2023 – Present):

- Led AI/ML practice on AWS and Azure; delivered SaaS MVP in 3 months.
- Architected predictive maintenance SaaS using Azure IoT Central, AI Studio, and microservices on Kubernetes.
- Implemented Zero Trust security and monitored resilience with AWS Resilience Hub.

Principal Architect (2021 – 2023):
Led product development for warehouse automation systems, improving performance by 50%.
Re-architected systems to serverless event-driven architecture, reducing infrastructure costs by 80%.
Integrated cloud-native services (SNS, SQS, Redshift) to reduce technical debt and enhance analytics.

Director Technology (2020 – 2021):
Led AWS cloud operations and implemented CI/CD pipelines, reducing time-to-market by 50%.
Migrated SaaS product to serverless architecture, cutting TCO by 40%.

Software Manager (2017 – 2020):
- Achieved 40% cost savings by integrating multi-cloud systems with event-driven architecture.
- Developed microservices-based products using Python, NodeJS, Java, and React.

Solutions Architect (2013 – 2017):
- Architected and developed NodeJS, Python, and SpringBoot microservices for large-scale web platforms.

Various Leadership & Development Roles (1999 – 2013):
- Developed software modules in telecom, finance, and government sectors, leading teams to deliver enterprise-grade solutions using Java, Spring, and Python.