Sukhpinder S.
Architect Cloud Architect & .Net Modernization Consultant

SUMMARY

- Senior Cloud Architect with 12+ years in Kubernetes (EKS), AWS, Azure, and .NET modernization, delivering 3–5× platform scaling and 50% latency reduction.
- Expert in Infrastructure as Code, CI/CD automation, and AI-assisted engineering tools like Claude and AWS Transform.
- Proficient in C#, .NET 8, Python, Typescript/Angular, and microservices architecture with strong security and compliance focus.
- Led migrations to containerized and serverless architectures, cutting pod startup from 150s to 10s and reducing compute costs up to 6×.
- Skilled in observability, SRE practices, PostgreSQL ETL pipelines, and mentoring cross-functional teams to meet 99.9%+ SLAs.

TECHNICAL SKILLS

Main Technical Skills	Kubernetes (5 yr.), .NET (12 yr.), AWS (5 yr.), Azure (5 yr.), Python (5 yr.)
AI Tools & Assistants	ChatGPT (3 yr.), Claude (3 yr.), CoPilot (3 yr.), Kiro (3 yr.)
Programming Languages	Python (5 yr.), TypeScript (5 yr.)
JavaScript Frameworks	Angular (5 yr.)
.NET Platform	ASP.NET Core Framework (5 yr.), ASP.NET MVC (5 yr.), ASP.NET WebForms (5 yr.), Identity Server (1 yr.), .NET (12 yr.)
AI & Machine Learning	Claude (3 yr.), CoPilot (3 yr.), Transformer (3 yr.)
Mobile Frameworks and Libraries	Xamarin (3 yr.)
Databases & Management Systems / ORM	Microsoft SQL Server (5 yr.), MongoDB (5 yr.), PostgreSQL (5 yr.)
Cloud Platforms, Services & Computing	AWS (5 yr.), Azure (5 yr.), Serverless (5 yr.)
Amazon Web Services	AWS CloudWatch (5 yr.), AWS ECS (Amazon Elastic Container Service) (5 yr.), AWS ElastiCache (5 yr.), AWS Elastic Kubernetes Service, AWS Elastic Kubernetes Service (EKS) (5 yr.), AWS Graviton (4 yr.), AWS Lambda (5 yr.), AWS SQS (5 yr.)
	SAAS (5 yr.)

Industry Domain Experience	
Hardware	AWS Graviton (4 yr.)
Deployment, CI/CD & Administration	CI/CD (5 yr.), DevOps (5 yr.), SonarQube (2 yr.)
Message/Queue/Task Brokers	Kafka (5 yr.)
Virtualization, Containers and Orchestration	Kubernetes (5 yr.)
Methodologies, Paradigms and Patterns	microservices (5 yr.)
SDK / API and Integrations	OAuth (5 yr.)
Scripting and Command Line Interfaces	PowerShell (5 yr.)
Other Technical Skills	Infrastructure as Code (5 yr.)

WORK EXPERIENCE

Cloud Architect & .Net Modernization Consultant - Amazon (Cloud-native container platforms and infrastructure architecture on AWS)

Mar 2025 – Present

- Design and governance of cloud-native container platforms and infrastructure architecture on AWS to improve performance, reliability, and cost-efficiency for regulated mission-critical workloads
- The project involved architecting Kubernetes and container platforms for multiple microservices based on
- NET, focusing on scalability, fault isolation, and deployment velocity

- Architected and governed Kubernetes / container platforms (EKS, ECS) for 10 microservices based .NET services (~100,000 LOC).
- Defined cluster, networking, and autoscaling patterns.
- Developed PostgreSQL ETL pipeline processing XML-based data using AI-assisted tools.
- Reduced CPU and compute consumption through right-sizing and resource configuration.
- Developed Python utilities for log analysis and platform automation.
- Standardized releases with Infrastructure as Code and CI/CD pipelines.
- Implemented end-to-end observability with CloudWatch and structured logging.
- Applied security best practices and access controls.
- Automated deployment and operational tasks with PowerShell.

AWS (EKS, ECS, Lambda, CloudWatch), Kubernetes, .NET, PostgreSQL, Python, AI-assisted tools (Claude, AWS Transform, Kiro), Infrastructure as Code, CI/CD pipelines, PowerShell

.NET Technical Architect - SourceFuse (Cloud adoption and .NET platform modernization)

Apr 2024 – Mar 2025

- Led architecture, engineering, and developer coaching to de-risk cloud adoption and modernize
- NET platforms by migrating monolithic applications to containerized Kubernetes and serverless architectures, improving deployment speed and scalability

- Led migrations from monolithic .NET apps to containerized Kubernetes (EKS) and serverless (Lambda) architectures.
- Re-architected container startup to reduce pod startup time from 150s to 10s.
- Tuned autoscaling policies to sustain 5× traffic.
- Designed and implemented microservices architecture patterns.
- Designed high-availability EKS / Lambda patterns and migrated workloads to Linux.
- Mentored a 10-person cross-functional team and led design reviews.
- Used AI tools (Claude, Copilot) for code generation, unit tests, documentation, and code reviews.
- Conducted MSSQL to PostgreSQL proof of concepts for database modernization.

Kubernetes (EKS), AWS Lambda, .NET, Linux, MSSQL, PostgreSQL, Claude, Copilot

Technical Lead - SourceFuse (AWS architecture design and .NET modernization)

Jun 2020 – Mar 2024

- Led a cross-functional team to design scalable AWS architectures and modernize
- NET applications, achieving high availability and cost efficiency while improving release frequency and code quality

- Led and mentored a 12-member cross-functional team.
- Designed scalable AWS architectures meeting 99.9%+ SLA targets.
- Led migrations to .NET 8 on Linux to reduce Windows licensing costs.
- Adopted AWS Graviton instances for cost and performance benefits.
- Introduced CI/CD and automated testing to increase release frequency and reduce defects.
- Increased code coverage from 23% to 82% within a year.
- Conducted R&D and PoCs to evaluate new technologies and shape roadmap.

AWS, .NET 8, Linux, AWS Graviton, CI/CD, automated testing

Specialist Software Engineer - Societe Generale (Financial regulatory programmes (MiFID II, PSD2))

Jan 2019 – May 2020

Developed secure and compliant full-stack applications for financial regulatory reporting and APIs, ensuring adherence to regulations such as MiFID II and PSD2 within a large delivery team.

- Built secure, compliant full-stack applications (.NET Core APIs, Angular / TypeScript) for MiFID II reporting.
- Engineered PSD2-compliant APIs with Strong Customer Authentication and authorization controls.

- Ensured quality and performance through SonarQube, peer code reviews, and CI/CD practices.

.NET Core, Angular, TypeScript, SonarQube, CI/CD

Software Engineer - General Electric (Industrial locomotive log data analytics tool)

Aug 2018 – Jan 2019

- Developed a
- NET analytics tool to process industrial locomotive log data and generate visual reports, improving reporting efficiency and decision-making

- Built .NET analytics tool for processing locomotive log data.
- Refined chart-generation logic to improve trend visibility.

.NET

Senior System Engineer - Infosys (Enterprise C# applications and cross-platform mobile and console apps)

Aug 2015 – Jul 2018

Delivered enterprise C# applications, internal and client-facing tools, and provided technical guidance on Xamarin cross-platform mobile and console applications.

- Coded, tested, and documented enterprise C# applications.
- Built internal and client-facing tools.
- Diagnosed and resolved application issues and optimized performance.
- Provided technical guidance on Xamarin cross-platform mobile and console apps.

C#, Xamarin

EDUCATION

- **Master's degree, Software Systems**
  BITS Pilani, Rajasthan, India
  2019–2021
- **Postgraduate Diploma, Computer Applications**
  IGNOU, Delhi, India
  2020–2021
- **B.Tech, Computer Science & Engineering**
  Punjabi University, Patiala, India
  2011–2015

CERTIFICATION

- **Anthropic - Claude Certified Developer – Foundations**
- **Microsoft Certified: Azure AI Apps and Agents Developer Associate**
- **Microsoft Certified: Azure Security Engineer Associate**
- **Microsoft Certified: Azure AI Engineer Associate**
- **Docker Foundations Professional Certificate — Docker**
- **Software Development Fundamentals — Microsoft**