

# SIDDHARTH YADAV

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**Engineering Leader** specializing in **Platform, DevOps, Cloud Modernization** and **AI Innovation**. Most recently oversaw the platform and security for a **\$25B AUM** investment environment, delivering a mission-critical disaster recovery setup in **1/3rd the estimated time**. Currently deepening expertise in **Model Building** and **MLOps** via **MIT Professional Education**, while leading the secure integration of **Amazon Q, ChatGPT Enterprise**, and **LLM-driven** productivity tools. Expertise includes **IaC (Terraform/CDK)**, containerization (**Kubernetes/Docker**), and leading high-performing technical teams through complex SDLC transformations.

## **McKinsey & Company (MIO Partners) - Head of Platform Engg. Strategic Leadership & Delivery**

**July 2018- Jan 2026**

- Decoupled McK technology stack from MIO Partners' operations, delivering on key objectives in record time.
- Designed and implemented DevOps, Cloud, and Security frameworks, tooling, and infrastructure; built and trained a high-performing team leveraging tools like Jenkins, Gitlab, Github, Docker etc.
- Lead the end-to-end modernization and containerization of 150+ legacy applications (Python, C#, Java, Node) from monolithic VM and physical hardware environments to OpenShift and Docker, increasing deployment velocity and reducing infrastructure overhead using modular CI/CD pipelines and IaC.
- Managed project scope, interactions with portfolio managers, and McKinsey's senior leadership, delivering monthly and quarterly updates, gathering requirements, and prioritizing key deliverables.
- Developed and presented a comprehensive cloud migration strategy, including CAPEX/OPEX analysis and cloud service provider (CSP) and MSP comparisons.
- Organizational & Team Restructuring: Led a transformative restructuring of the Database and IT Operations teams, streamlining internal processes and recruiting high-performing talent to realize \$2 million in annual cost savings.

## **Cloud Migration & Modernization**

- Orchestrated the seamless retooling and migration of 150 plus applications (Python, C#, Java, Node) and technology assets to a multi-cloud environment (AWS, Azure) using ECS, Fargate, Kubernetes, AKS, Azure SQL, RDS, Aroura, S3, Lambda StepFunctions and other serverless services.
- Implemented Infrastructure as Code (IaC) using Ansible and Terraform along with CDK for consistent and reproducible deployments across AWS and Azure that resulted in recurring savings of \$500000 annually.
- Led the development and implementation of an AWS-native Disaster Recovery buildout, completing the project in 1/3rd the time and at half the resources of AWS ProServe's estimate (ProServe's initial estimate was \$3.5 million).

## **Artificial Intelligence (AI)**

- Led the rollout of enterprise AI capabilities using ChatGPT Enterprise, Amazon Q and WindSurf
- Architected an Enterprise AI Platform Strategy leveraging Amazon Bedrock and Claude 3.5 Sonnet, automating the synthesis of 10,000+ pages of internal technical documentation.
- Reduced MTTR (Mean Time to Repair) by 60% by deploying a specialized AI assistant that correlated platform architecture documentation with live infrastructure schemas, significantly shortening the troubleshooting lifecycle.
- Secure GenAI Research Assistant for Quants: Developed a custom LLM-based research tool using Amazon Bedrock and SageMaker JumpStart to analyze vast volumes of unstructured market data.
- Serverless Quant Alpha Research Pipeline: Architected an end-to-end pipeline using SageMaker Notebooks for model development and SageMaker Processing jobs

## **Observability, Monitoring, and Alerting**

- Spearheaded the implementation of a comprehensive observability, monitoring, and alerting platform, leveraging CloudWatch, CloudTrail, and OpenSearch to gain deep insights into system performance and security events.
- Working on integrating Dynatrace for advanced application performance monitoring, providing end-to-end transaction tracing, root cause analysis, and performance optimization recommendations.
- Perimeter Security: Direct the management, configuration, and patching of Cisco and Palo Alto firewalls, maintaining rigorous security standards across hybrid environments.

## **Security & Compliance**

- Collaborated with the CISO to define and implement an AWS security strategy that aligned with organizational and compliance needs implementing access controls, monitoring solutions, and security best practices.
- Ensured compliance with regulations and internal policies through security audits, access controls, and guardrails.
- Enforced security guardrails using Wiz and AWS Service Control Policies (SCPs).
- Rolled out a measurable security assessment process spearheading the development of the AppSec program, built the AppSec team and platform (SAST- Checkmarx, SCA- Blackduck) leading AppSec PoCs and recruiting.

- Direct the management, configuration, and patching of Cisco Switches and Palo Alto firewalls, maintaining rigorous security standards across hybrid environments.

### **Physical Infrastructure & Modern Workspace Operations**

- Office Buildout: Led the end-to-end IT design and execution of a corporate office buildout, including the procurement and deployment of hardware, networking, and A/V systems.
- VDI & Remote Computing: Architected and rolled out AWS WorkSpaces for Linux and Windows, ensuring high-performance remote desktop capabilities for traders and investment professionals.

### **Ernst & Young - Lead DevOps/Platform Engineer**

**Jan 2018- July 2018**

(Consultant for HSBC & Mastercard via Open Systems)

- Facilitated project scoping, defined timelines, and prioritized solutions as the interface between EY's Azure development center and customers/stakeholders.
- Built Azure-based stack for a search engine prototype using Elasticsearch, automated app build and deployment using Kubernetes and Docker.
- Established a spinnaker-based multi-cloud continuous delivery platform for deployment and cluster management.
- Supported the development of an artificial intelligence and machine learning platform prototype.
- Utilized ARM Templates (Azure) and Terraform (AWS) for automation, enabling efficient infrastructure rebuilding
- Led the redesign of build, packaging, and deployment strategies to enable CI/CD, resulting in significant time and cost savings.

### **Broadridge Financials - Sr. DevOps Architect/Engineer**

**Oct 2017- Jan 2018**

(On a short-term Contract via Consultnet)

- Led and trained a team of DevOps engineers, managing work distribution and facilitating scrums.
- Implemented an open-sourced Jenkins, Docker, and Artifactory platform, reducing app onboarding time by 80% and saving \$400,000.
- Optimized resource costs by implementing scalable Docker slaves for builds instead of long-running agents, resulting in a \$100,000 cost reduction.

### **Bank of America Merrill Lynch – DevOps Architect/Developer**

**Feb 2013 - Oct 2017**

- Future state transformation roadmap & strategy: Defined SDLC transformation roadmap to streamline development and deployment, integrating 30 internal tools, 11 vendor tools, and 42 sources into a simplified technology management tool and data warehouse as part of Bank of America's Simplify and Improve Initiative.
- Cloudbees Jenkins setup and build on docker slaves: Setting up centralized Cloudbees Jenkins infrastructure, enabling efficient code build and release activities across the enterprise using containers and shared agent pools.
- Cloud strategy research pipeline: Created end-to-end CI/CD pipeline for Java applications, presenting findings on projected savings and benefits of adopting the pipeline to senior leadership.
- Pipeline as code shared libraries: Developed framework and shared libraries for pipeline-as-code, supporting build, test, and deployment stages across technologies in Jenkins.
- Datical DB deployment automation framework: Implemented source control, automated tests, and deployments for database scripts to SQL Server, Oracle DB, and IBM DB2, reducing human involvement and increasing efficiency.
- Config management and infrastructure provisioning enablement: Automated infrastructure provisioning and configuration management using Salt, Puppet, and Ansible, deploying applications on containers and virtual machines.
- iOS & Android build and deployment: Led mobile build and deployment project for iOS and Android apps, integrating Jenkins and TFS, and enabling iOS build and publishing through REST API.
- Conversion of legacy apps for cloud deployment: Converted and deployed sample apps to PaaS/SaaS architecture using MS Team Foundation Server, facilitating adoption among DevOps teams.
- Production support pattern analysis: Analyzed support patterns for Resource Time off application and Technology Finance Management application, reducing support resource engagement by over 50% and cutting costs by \$150,000 annually.

### **Cummins Inc., Nashville, Tennessee, USA - System Analyst-Intern**

**May 2012 - Aug 2012**

- Created the base line for a Data Dictionary for the Data Architecture group as a business analyst
- Setup CA ERwin r8.2 Data Modeler in a lab environment. Converted legacy data models using Erwin
- Gathered information from 6 sub businesses and 8 DCs for integrated IT strategy development

### **Education**

Certificate in Applied AI and Data Science - MIT Professional Education, Boston, MA

Master of Science in Information Systems - *University of Florida, Gainesville, FL*

Bachelor of Technology in Computer Science Engineering - *VIT University, Vellore, India*