**SANDIP PODDAR**

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Strategic IT Leader | AWS Cloud, Infrastructure Automation, and Agile Delivery Expert

Accomplished Cloud Architect and Technology Leader with over 17 years of experience in driving innovation through scalable infrastructure design, cloud migration, and advanced automation strategies. Expertise in architecting CI/CD pipelines, modernizing legacy systems, and delivering secure, high-performance solutions on cloud platforms. Proven track record in leading cross-functional teams to execute mission-critical projects, reduce time-to-market, and enhance developer productivity. AWS-certified professional with hands-on experience in MLOps, serverless architecture, and global infrastructure expansion. Adept at aligning technology initiatives with business objectives to deliver measurable value and operational excellence.

# **CORE TECHNICAL SKILLS**

* **Cloud Computing:** AWS (Cognito, Lambda, RDS, DynamoDB, ElastiCache, S3, ECS, EC2, API Gateway, SNS, SQS, EFS, CDK, CloudFront)
* **Automation Tools:** Selenium, Cucumber, Jasmine, Ansible, Jenkins, CloudFormation, Terraform
* **DevOps & CI/CD:** Jenkins, Docker, BitBucket, Git, Artifactory, SonarQube, Linux, Splunk, Dynatrace
* **Programming & Scripting:** Node.js, TypeScript, Java, REST APIs
* **Database Management:** Oracle, MySQL, DynamoDB
* **API Management:** API Gateway, APIGee, REST APIs
* **Testing Frameworks:** Appium, Cucumber (BDD/ATDD), Fastlane, Jasmine
* **Security Tools:** SiteMinder, Checkmarx
* **Infrastructure as Code (IaC):** Terraform, CloudFormation
* **Agile Methodologies:** SAFe Agile, Scrum, Twelve-Factor App
* **Agile Tools:** JIRA, Confluence, Zephyr, Xray

# **SPECIALIZED AREAS OF EXPERTISE**

* **Digital Experience:** Digital Customer Experience, Cloud-Native Architecture, Cloud Migration
* **CI/CD Enablement:** End-to-End CI/CD Pipeline Design and Optimization
* **Cloud Infrastructure:** Creating Cloud Infra with security and scalability
* **Developer Productivity:** Automation Frameworks, Performance Optimization
* **Mobile Application Deployment:** Fastlane, Mobile Testing (SauceLabs, Appium)
* **MLOps:** SageMaker Integration, Serverless MLOps Pipelines

# **KEY ACHIEVEMENTS**

* **Global Deployment Efficiency:** Designed AWS CDK pipelines, reducing region build time from 2 months to 3 days. Automated manual build processes, cutting local zone deployment from 45 days to 5 days.
* **IPv6 enablement:** Design and develop multi-region IPv6 support for complex AWS services
* **CI/CD & Developer Productivity:** Modernized legacy deployment pipelines into fully automated CI/CD frameworks, boosting productivity and reducing time-to-market. Optimized pipeline efficiency and enhanced unit test coverage.
* **Secure & Scalable Solutions:** Developed AWS PrivateLink infrastructure for secure deployments and compliance. Led containerization of legacy trading applications for seamless microservices deployment across clusters and availability zones.
* **Cloud Migration:** Led the migration of trading and wealth management applications to AWS, integrating automation for scalability and resilience.
* **MLOps Automation:** Created automated MLOps pipelines with SageMaker, Lambda, and S3, streamlining model training and deployment. Integrated ML workflows into production for better data-driven decision-making.
* **Quality Assurance:** Designed test automation frameworks integrated with CI/CD, improving testing efficiency and deployment quality. Implemented automated performance, security, and accessibility testing within CI/CD workflows.
* **Leadership & Team Development:** Managed cross-functional teams of up to 20 members, fostering innovation and high performance. Established a Quality Engineering organization with strategic principles for automation and monitoring.
* **Global Expansion & Operational Excellence:** Contributed to Prudential’s international expansion efforts in Brazil, Indonesia, and South Korea. Provided L3 support for FSx services, managing incidents and ensuring operational excellence.
* **Recognition & Results:** Consistently recognized for delivering secure, scalable solutions under tight deadlines. Achieved significant reductions in deployment times, aligning technology with business goals.

# **WORK EXPERIENCE**

**Fiserv | New York City | Cloud Architect | May 2025 – Present**

**CommerceHub platform**

* Architect the multi region expansion of CommerceHub platform for Fiserv
* Design and develop fully automated CDK pipelines having global scalability in focus.

**Key Technologies**: AWS (CDK, FSx, SageMaker, Lambda, API Gateway, S3, CloudFormation), CI/CD, Jenkins, Python, Node.js

**Amazon Web Services (AWS), New York City | Cloud Architect | Feb 2023 – May 2025**

**Region Build Automation & FSx Service Expansion**

* Led a team of 4 developers to design automated region builds using CDK pipelines, reducing build time from 2 months to 3 days.
* Design and develop self-mutating, multi-region IPv6 support considering security, feature availability and scalability as key parameters.
* Expanded FSx services globally, including in isolated regions like Canada and Kuala Lumpur.
* Automated local zone deployments, reducing time from 45 days to 5 days.
* Designed secure PrivateLink infrastructure for isolated regions using CloudFormation.
* Enhanced CI/CD pipelines with automated testing for improved deployment quality.

**MLOps & Serverless Infrastructure**

* Built automated MLOps pipelines using SageMaker, Lambda, and S3 for efficient model deployment.
* Deployed scalable serverless infrastructure for hosting ML APIs with API Gateway and Lambda.

**Operational Excellence & Leadership**

* Provided L3 support for FSx, managing incidents and performing root cause analysis.
* Mentored a team of 4 developers, delivering scalable infrastructure aligned with business goals.

**Impact:** Achieved significant reductions in deployment timelines, enhanced developer productivity, and delivered secure, scalable infrastructure solutions that aligned with strategic business goals.

**Key Technologies**: AWS (CDK, FSx, SageMaker, Lambda, API Gateway, S3, CloudFormation), CI/CD, Jenkins, Python, Node.js

**Millennium, New York City | Cloud and Automation Architect | Jan 2022 – Jan 2023**

**Cloud Migration & Modernization**

* Migrated trading applications to AWS, integrating robust CI/CD pipelines for seamless delivery.
* Containerized legacy applications using Amazon ECS, enabling resilient microservices deployment.
* Data Migration: Plan and manage the data migration process, ensuring data integrity and minimal downtime
* Monitoring & Optimization: Establish monitoring and logging solutions for the migrated application and infrastructure, optimizing for performance and cost efficiency.

**Automation & CI/CD Enablement**

* Developed Raptor agent, streamlining test automation in isolated environments.
* Integrated automated workflows into CI/CD, reducing manual intervention and improving efficiency.

**Impact:** Delivered resilient, cloud-native solutions that reduced downtime, improved application performance, and accelerated testing cycles, enabling faster time-to-market.

**Key Technologies**: AWS (ECS, RDS, Lambda, S3, CloudFormation), Terraform, Docker, Jenkins, BitBucket, Node.js

**Prudential Financial, Newark, NJ | DevOps Architect | June 2017 – Dec 2021**

**Pipeline Modernization**

* Automated legacy mobile deployment pipelines using Fastlane for iOS/Android app store deployments.
* Integrated test automation frameworks, improving testing coverage and pipeline reliability.
* Solution Architecture: Design the end-to-end architecture of the containerized solution, including containerization, orchestration, and deployment pipelines
* Tool Selection and Evaluation: Evaluate and select appropriate tools and technologies (e.g., Docker, Jenkins, ECS/EKS, monitoring tools) to meet the project's needs.

**Containerization & Infrastructure**

* Implemented Docker-based containerization for consistent and scalable deployments.
* Integrated device clouds like SauceLabs into CI/CD for optimized mobile testing workflows.

**Leadership**

* Managed a cross-functional team of 20+ engineers for international expansion initiatives.
* Established a Quality Engineering organization to drive automation and CI/CD enablement.

**Impact:** Enhanced global delivery processes, reduced deployment errors, and drove international growth through scalable solutions and automation enablement.

**Key Technologies**: Fastlane, Appium, Cucumber, TestNG, Jenkins, Docker, Selenium, SauceLabs, Perfecto

**Cognizant Technology Solutions, Multiple Locations | Senior Associate | Jan 2010 – June 2017**

* Designed AWS-based automation solutions, delivering scalable and high-performance deployments.
* Led 5-8 engineers to develop automation frameworks for UI and API testing using Selenium and JUnit.
* Specialized in CI/CD pipeline development and cloud infrastructure automation.

**Impact:** Delivered innovative automation solutions that accelerated development lifecycles and enhanced operational efficiency.

**Key Technologies:** AWS, Selenium WebDriver, JUnit, Java, REST APIs, Docker, CI/CD Pipelines, Jenkins

# **EARLY CAREER**

* **Software Engineer |** CGI | Apr 2009 - Dec 2009
* **Software Engineer |** Tech Mahindra (formerly Mahindra Satyam) | Oct 2007 - Mar 2009

# **EDUCATION**

* **Bachelor of Technology (B.Tech.) in Mechanical Engineering |** West Bengal University of Technology, Kolkata | 2003 – 2007

# **CERTIFICATION**

* **AWS CloudFormation |** Udemy | Issued Feb 2023
* **CloudFormation Advanced |** Udemy | Issued Feb 2023
* **Programmer/Analyst Aptitude |** Brainbench Technology | Issued Dec 2020
* **SQL (ANSI) |** Brainbench Technology | Issued Dec 2020
* **Software Quality Assurance |** Brainbench Technology | Issued Dec 2020
* **Software Testing |** Brainbench Technology | Issued Dec 2020
* **AWS Certified Solutions Architect – Associate |** Amazon Web Services (AWS) | Issued Aug 2020