



### Professional Summary

Experienced AWS Cloud Lead and Senior Architect with over 18 years of expertise in designing and delivering robust, scalable cloud solutions. He has extensive experience in enterprise architecture, microservices, and cloud computing, with a proven ability to leverage AWS services for digital transformation, cost optimization, high availability, and distributed infrastructure management, including on premises to cloud migrations. A strong leader in managing cross-functional teams, he guides cloud migration initiatives and implements DevOps practices to accelerate development cycles and enhance operational efficiency. Proficient in artificial intelligence and machine learning, including generative AI models, he combines software development expertise and data science knowledge to design, develop, and optimize complex software systems. He has successfully led teams in building automated data pipelines, efficient ETL processes, and high-performance, low-latency applications across both cloud and on-premises environments.

### Memberships

- IEEE Senior Membership
- Fellow Member – IETE
- Fellow Member - IOASD

### Publications

- Google Scholar Profile- <https://scholar.google.com/citations?user=poSjvf4AAAAJ&hl=en>

### Accolades

- Keynote Speaker, AI Impact Summit 2026 – Under India AI Mission, National Institute of Technology Arunachal Pradesh, India.
- Session Chair, Second International Conference on Intelligent Systems and Security (ICISS)
- Judge & Reviewer, Second International Conference on Artificial Intelligence (ISAI)
- Judge & Reviewer, International Journal of Advanced Research in Education and Technology (IJARETY)
- Judge & Reviewer, International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)
- Peer Reviewer, Journal of AI-Powered Medical Innovations (JAPMI)
- Peer Reviewer, Journal of Artificial Intelligence General Science (JAIGS)
- Achieved 500+ mentorship minutes milestone, supporting AI/ML professionals globally in ADPList.

### Certifications

- Introduction to AI, Google
- Elements of AI, University of Helsinki
- AI and Career Empowerment, University of Maryland
- AWS Cloud Practitioner

## ★ Technical Skills

Cloud Platform	Amazon Web Service (EC2, S3, Lambda, AWS Glue, AWS Rekognition, Amazon DynamoDB, Textract, Bedrock, Amazon Comprehend, Data Migration), Google Cloud Platform (BiGQuery, Dataproc, Dataflow, Google pubsub, Google Cloud Storage), Pivotal Cloud Foundry, Azure Cloud, Databricks (Unity Catalog, Feature Store, Notebook)
Data Cloud	Snowflake, Cloud Data Analytics
Workflow Orchestration	AWS Step Function, Amazon Event Bridge, Apache WorkFlow
Database	Oracle, Snowflakes, Mongo DB, PostgreSQL, MySQL, Cockroach DB, Cassandra, BigQuery, DynamodDB, Apache Iceberg
AI/ML	Numpy, Pandas, Matplotlib, Data Engineering, Artificial Intelligence & Machine Learning, Deep Learning, Reinforcement Learning(Human feedback), Gen AI(Large Language Model), Data Visualization, Data Analytics & Reporting, Scikit-learn, Responsible AI
DevOps	GitHub, GIT, SVN, Jenkins, Gradle, Docker, Maven
BigData	Hadoop, Spark, Kafka, Data modeling, Data Lakes, Data Warehouse
ELK Stack:	Logstash, Kibana, Elastic Search
Tools & Technologies	Jira, Power BI, Microsoft Visio, Tableau, Rally, AppDynamics, Terraform, Swagger, RAML, Soap UI, Talend, DataStage, Sun SeeBeyond JavaCaps, Service Now, NetBeans, Eclipse, Oracle JDeveloper, IntelliJ Idea, MySQL Workbench, Toad, Jenkins, CICD, Spinnaker, Sonar, Raven, Jules, Confluence
Framework	Spring Boot, Microservices, Struts, Spring, Mockito, Hibernate, JPA, Rest & Soap APIs
Language	Java, SQL, Python, PySpark, R, Ruby, HTML, JavaScript, XML, Angular, NodeJS

## ★ Work Experience

JP Morgan Chase, USA

Roles: Associate, Software Engineer III

Location- Chicago, IL USA- 60603

May 2024 – Present

Responsibilities	<ul style="list-style-type: none"> <li>Developed a transaction search application that helps merchants to search, filter, and analyze transaction data efficiently. Merchants or Customers can do a custom search based on specific criteria, such as transactions within a certain period with particular merchants or above a certain amount. Reduce human error by providing precise and reliable search results which is crucial for financial accuracy.</li> <li>Architect and implement secure, scalable, and high-performance cloud solutions using AWS services</li> <li>Lead a team of cloud engineers and developers to design and deploy cloud infrastructure, ensuring best practices in security, cost management, and operational efficiency</li> <li>Spearheaded cloud migration projects, including planning, execution, and post-migration optimization, reducing infrastructure costs and improving system performance.</li> <li>Optimized the application's performance by implementing caching strategies using CloudFront and DynamoDB Accelerator (DAX).</li> <li>Implement AI/ML techniques for fraud detection and predictive customer behavior.</li> <li>Enabled seamless scaling during peak load periods, handling up to a million transactions without performance degradation.</li> <li>Implement Infrastructure as Code (IaC) using Terraform and CloudFormation, automating the deployment of complex cloud environments.</li> <li>Monitor and optimize cloud resources, ensuring high availability and disaster recovery through automated failover mechanisms and backup strategies.</li> <li>Provide mentorship and training to junior cloud engineers, fostering a collaborative and growth-oriented team environment.</li> </ul>
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JP Morgan Chase, USA

Roles: Associate, Software Engineer III

Location- Chicago, IL USA- 60603

Oct 2022 – May 2024

Responsibilities	<ul style="list-style-type: none"> <li>Build a receipt application, which is to provide customer receipts to its clients, Customers can receive receipts via email or download them from the portal. Reducing the need for physical paper receipts. Also provide a detailed breakdown of purchases, taxes, and discounts, improving customer trust and satisfaction.</li> <li>Architect a highly available scalable and secure system using AWS services such as API Gateway, Lambda, S3, Dynamo DB, and RDS.</li> <li>Designed a microservices-based architecture with serverless components to ensure flexibility, maintainability, and reduced operational overhead.</li> <li>Provide automatic data extraction, and classification by using the AI/ML techniques.</li> <li>Optimized the application's performance by implementing caching strategies using CloudFront and DynamoDB Accelerator (DAX).</li> <li>Enabled seamless scaling during peak load periods, handling up to 1 million transactions without performance degradation.</li> <li>Established CI/CD pipelines using Jenkins, Terraform, and AWS CodePipeline, reducing deployment times and minimizing human errors.</li> </ul>
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Deloitte LLP, USA

Roles: Senior Solution Specialist,

Home Location (Due To Covid)- Prospect Heights, IL, USA- 60070

Client- Capital One (Banking)

Jan 2022 – Oct 2022

Responsibilities	<ul style="list-style-type: none"> <li>▪ Lead the design, development, and deployment of cloud-based solutions, leveraging AWS services to meet business needs.</li> <li>▪ Architected and implemented microservices using Spring Boot and Docker, improving system scalability by 30%.</li> <li>▪ Spearheaded the migration of legacy applications to AWS, resulting in a 25% reduction in infrastructure costs.</li> <li>▪ Managed a cross-functional team of developers and DevOps engineers to implement CI/CD pipelines using Jenkins, and Terraform, reducing deployment time by 50%.</li> <li>▪ Led the design and implementation of serverless applications using AWS Lambda and API Gateway, enhancing application performance and reducing latency by 20%.</li> <li>▪ Developed and enforced security best practices across cloud environments, ensuring compliance with industry standards and regulations.</li> </ul>
Cognizant Technology Solutions, USA	
Roles: Sr. Software Engineer B2 Client Location- Riverwoods, IL USA- 60015 Client- Discover Financial Services <span style="float: right;">July 2019 – Jan 2022</span>	
Responsibilities	<ul style="list-style-type: none"> <li>▪ Lead the design of the Digital Payments ecosystem from a technology, process, integration, and data design perspective.</li> <li>▪ Take a lead role in the detailed design of the Digital Payments ecosystem, focusing on technology, process, integration, and data design.</li> <li>▪ Collaborate with stakeholders to gather and analyze requirements for the digital checkout-based application.</li> <li>▪ Translate business requirements into technical specifications and design documents.</li> <li>▪ Design APIs using RAML for developing features with MuleSoft Any Point Platform and deploying them on Mule Cloud Hub.</li> <li>▪ Design and develop the digital checkout application using a Microservices architecture.</li> <li>▪ Followed the entire software development lifecycle process and built the Rest APIs to be deployed on the cloud platform (PCF and AWS).</li> <li>▪ Developed technical solutions to diverse operational problems such as logging using ELK stack and Spring Boot Sleuth.</li> <li>▪ Worked on No-SQL technology using MongoDB for storing the data in the database.</li> <li>▪ Worked on technical design review, with the ability to provide insight, guidance, and review at all levels from architecture to design and code.</li> <li>▪ Utilize AppDynamics to monitor and track API performance and health.</li> <li>▪ Develop and manage Jenkins pipeline jobs for continuous integration and continuous deployment (CI/CD)</li> <li>▪ Integrate AI/ML solutions to enhance payment security and transaction analysis.</li> <li>▪ Develop machine learning models to detect and prevent fraudulent activities.</li> <li>▪ Implement robust logging and monitoring solutions to ensure system reliability.</li> <li>▪ Ensure data security and compliance with relevant regulations and standards.</li> <li>▪ Implement data governance practices to manage data quality, integrity, and privacy.</li> <li>▪ Follow best practices for data encryption, access control, and secure communication.</li> <li>▪ Maintain routine communication with clients to assess overall satisfaction, resolve complaints, and promote new offerings.</li> <li>▪ Provide technical support and address client concerns promptly and effectively.</li> <li>▪ Work in an Agile environment, participating in sprint planning, daily stand-ups, and retrospective meetings.</li> <li>▪ Collaborate with cross-functional teams to deliver high-quality software solutions on time.</li> <li>▪ This comprehensive approach ensures the successful development and deployment of a secure, user-friendly digital checkout solution, leveraging the latest in cloud technology, microservices architecture, and AI/ML advancements.</li> <li>▪ Experience with managing teams, onshore and offshore, to track and complete the work.</li> <li>▪ Daily status update to client for any requirement changes to the application.</li> </ul>
Cognizant Technology Solutions, USA	
Roles: Associate Projects Client Location- Deerfield, IL USA- 60015 Client- Walgreens (HealthCare) <span style="float: right;">Oct 2014 – July 2019</span>	
Responsibilities	<ul style="list-style-type: none"> <li>▪ Requirement Gathering, Design, and development of batch job.</li> <li>▪ Automate the all-batch job using an Autosys tool to trigger at a properly scheduled time.</li> <li>▪ Using the JIL definition is to modify the proper schedule time which is been triggered through the Autosys tool.</li> <li>▪ Worked on technical design review, with the ability to provide insight, guidance, and review at all levels from architecture to design and code.</li> <li>▪ Defect tracking and defect fixes of the application.</li> <li>▪ Performed complete application life cycle functions from conception to final release to users including Design/Analysis, Implementation, Testing, Deployment, and Maintenance.</li> <li>▪ Developed the Application Framework using Java, Spring MVC, Spring IOC, Hibernate, and Log4J.</li> <li>▪ Used SOAP-based web services to communicate with the service layer.</li> <li>▪ Deployed and run the developed application on the WebSphere Application server.</li> <li>▪ Used JUnit framework for Unit testing of application.</li> <li>▪ Daily status update to client for any requirement changes to the application.</li> <li>▪ Using scrum methodology evaluated user stories and worked on that to extend the feature of the application.</li> </ul>
Cognizant Technology Solutions, Kolkata, India- 700091	
Roles: Associate Projects Client- Walgreens (HealthCare) <span style="float: right;">Dec 2010 – Oct 2014</span>	

Responsibilities	<ul style="list-style-type: none"> <li>▪ Developed and maintained enterprise-level Java applications, focusing on performance optimization and scalability.</li> <li>▪ Designed and implemented automated testing solutions for critical applications, reducing regression issues by 25%.</li> <li>▪ Worked closely with QA teams to define test cases and scenarios, ensuring comprehensive test coverage.</li> <li>▪ Assisted in the migration of legacy applications to a microservices architecture, improving system resilience.</li> <li>▪ Automated repetitive tasks and processes, saving over 200 hours of manual work annually.</li> <li>▪ Played a key role in the Agile transformation, contributing to faster and more efficient delivery</li> </ul>
Wipro Technologies, Kolkata, India- 700091	
Roles: Senior Software Engineer Client- General Motors (Manufacturing/Automobile) <span style="float: right;">Nov 2009 – Dec 2010</span>	
Responsibilities	<ul style="list-style-type: none"> <li>▪ Design and develop RESTful web services using Java/J2EE and Spring MVC for mobile app backend interface.</li> <li>▪ Implement SOAP web services using Spring 3.1 and ensure adherence to project best practices and coding standards.</li> <li>▪ Write comprehensive JUnit test cases using the Mockito framework to ensure code quality and reliability.</li> <li>▪ Utilize JPA (Java Persistence API) for database operations and querying, ensuring efficient data access.</li> <li>▪ Implement API Security measures to protect endpoints and data integrity.</li> <li>▪ Use Swagger for API documentation, ensuring clear and accurate specification of endpoints and functionalities.</li> <li>▪ Implement serialization techniques for efficient data transmission and storage.</li> <li>▪ Manage and deploy applications using WebLogic Application Server, ensuring scalability and high availability.</li> <li>▪ Write Shell scripts for automating deployment and server maintenance tasks.</li> <li>▪ Prepare low-level and architectural documents using tools like IBM Rational Rose, ensuring clarity and alignment with project requirements.</li> <li>▪ Collaborate closely with software development and testing teams to design and develop robust solutions that meet client requirements for functionality, scalability, and performance.</li> <li>▪ Conduct peer reviews and provide constructive feedback to improve code quality and adherence to coding standards</li> </ul>
Wipro Technologies, Pune, India -411057	
Roles: Software Engineer Client- SFR (Mobile Network) <span style="float: right;">June 2007 – Nov 2009</span>	
Responsibilities	<ul style="list-style-type: none"> <li>▪ Requirement Gathering, Design, and development using Web Services-SOA.</li> <li>▪ Deploying and managing APIs.</li> <li>▪ Use the project's best practices and coding standards.</li> <li>▪ Conduct peer review and provide feedback.</li> <li>▪ Quality with on-time delivery of agreed deliverables.</li> <li>▪ Prepare low-level design documentation.</li> <li>▪ Functional and Integration testing of the GCC Application.</li> <li>▪ Managing and Deploying the Application using WebLogic Application Server.</li> <li>▪ Collaborate with other application team members to perform system testing.</li> </ul>