Lokesh Palacharla

MS - Data Analytics | 6+ years' experience | H1B Validity - 01/30/2025 | AWS Solutions Architect | Machine Learning | CV | Al

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Self-motivated data analytics graduate and an **AWS** certified Cloud Solutions Architect – professional, with 6+ years of technical experience in computer science, engineering, and business development in highly competitive segments of the consumer appliances industry. Experienced at working in a fast-paced start-up environment and a well-established multi-national company. Capable of wearing multiple hats to deliver the best results with limited resources.

EXPERIENCE

Synechron, Inc.

Client: Bank of America Feb 2022 – Present.

Lead Technology

- Serving as a **Solutions Architect**, delivering optimized solutions to business problems, for one of the largest **banking clients** of the organization. Worked on building **omnichannel** marketing data pipelines across **digital**, contact center & financial centers.
- Designed & implemented (production) near real-time data pipeline that could handle 3.5K transactions/second volume and support
 personalized customer journey via Adobe Experience Platform (AEP) & Adobe Analytics by analyzing the customer clicks and
 interactions made on online and mobile channels of the bank.
- Lead architect for customer insights domain, provided customized event streaming integration (using confluent Kafka topics) pattern
 for capturing customer disposition data and persisting on the Hadoop platform needed for operational & analytical use cases. This
 helped in reducing major costs to the company.
- Contributed to the personalized marketing architecture with high-quality architecture solutions supported by Solution Architecture
 Approach for 8 applications, Current Vs Target State diagrams that are abiding by principles and patterns followed in the bank.
- Enabled **solutions** to solve **large-scale**, complex business problems with high **resiliency**, **scalability**, **performance**, **concurrency**, and other non-functional requirements of the line of business.
- Lead a team of four off-shore architects, explored new technology solutions, and presented essential comparisons, pros/cons, and target use cases for discussions in the architecture forum.

CIMCON Lighting Inc.

Oct 2020 – Feb 2022.

Cloud & Data Specialist

- Responsible for the data architecture related assessments and reviews for the Nearsky product. Designed and developed a rule
 engine which sends alerts and event notifications to our end users from our StreetVibe cloud.
- Experienced in architecting systems comprising one or more of the following: AWS IoT analytics, IoT Core, Kinesis, RDS, Lambda, Cognito, Docker, Databricks, MongoDB, Snowflake, Meta base.
- Involved in the implementation of the device management module, used for remote configuration, Over the air updates, controlling the NearSky devices from the StreetVibe platform.
- Reduced the costs incurred by our existing data pipeline by 68.4% by implementing S3 incremental update feature and making it server-less using AWS Lambda functions.
- Achieved a significant improvement of 80% in the deployment and development times (from 5 hours to 1 hour) of the visualization
 module for every new client.
- Worked as a Subject Matter expert for of Nearsky StreetVibe application, which helped 21 cities across the USA to deploy
 multiple smart city solutions across the globe.
- Modeled and articulated major aspects of highly scalable, reliable, and providing technical data solutions that leverage the AWS cloud platform to develop IoT solutions.
- Established a predictive analytics platform for global smart cities by implementing the AWS Machine learning stack.
- Offer technical guidance on technical standards, including coding standards, tools, or platforms.

CIMCON Lighting.

Data Engineer Jan 2020 – Jul 2020.

- Worked on **AWS Cognito**, **IoT Analytics**, **Glue**, **Athena**, **Lambda**to stand up a user role-based authentication system which can be collaborated with third party federated identities like Microsoft AD, Google account, and other social media handles.
- Lead a team of four offshore engineers to develop a real-time alerting system for Gunshot detection use case by utilizing AWS IoT Events and AWS IoT Things graph.
- Developed a data pipeline for real-time IoT analytics using Azure Databricks workspace comprising of Apache Spark analytics platform.

- Worked on building a executive level real time visualization dashboard using Power Bl's integration with Azure Databricks data science and engineering environment.
- Developed a custom Java application with BI driver container which balances the load by horizontal scaling and deployed it on AWS EKS and lead a group of four offshore engineers in an agile development environment.
- Implemented **Air Quality forecast** using **AWS Machine Learning stack** and predicted the traffic congestion with **96.7%** accuracy and created interactive dashboards in Metabase, AWS Quicksight, Tableau, Power BI, Grafana.

Tech Mahindra Ltd.

Aug 2016 – Dec 2018.

Software Engineer

- Built an incentive accrual application plugin which enhanced the efficiency by 41% and provided a solution in <2hrs
- Provided baseline Oracle ERP application support services which compromises of the day-to-day operations, set up related issues, break fixes, mini releases, enhancements.
- Functioned as PLSQL, Shell Script developer and successfully executed change requests that resulted in fixing ~ 3M bad data.
- Handled critical **migrations** and **enhancements** of the reporting and accruals application. Played a vital role in the month-end accrual activities and automated the reporting in **MS Access** DB with **PLSQL** scripts.

BrainVita Pvt Ltd.

Mar 2015 – May 2016

Technical Intern

- Worked as a back end developer and database manager on a project named handyman on call (HOC) an android application.
- Spiced up the image gallery of the app using JavaScript and CSS. Responsible for encryption of the passwords with MD5.

SKILLS -

Programming Languages:SQL, PLSQL, R, Python, JAVA, Shell Script, Clojure, Lisp, PHP.Databases:My SQL, Snowflake, Cosmos DB, MongoDB Atlas, Postgres.Machine Learning:Linear Regression, KNN, Decision Trees, SVM, Neural Networks.

Front-End Tools: Angular JS, React, Node.js, bootstrap, jQuery.

Web Development: HTML, CSS, JavaScript, REST API, Adobe Photoshop, Post Man.

Cloud Services: Azure Databricks, Event Hubs, Stream Analytics; AWS S3, RDS, lambda, Glue, Cognito, Kinesis, EC2.

Visualization Tools: Tableau, Power BI, Metabase, AWS Quicksight, Grafana, SiSense, Looker.

Technical Tools: Workbench, VS Code, SQL Developer, Spyder, Postman, Putty, WinSCP, Visual Studio, Cloudberry, Eclipse.

Containerization Tech: Docker, Microsoft container, Kubernetes, Swarm, BlockBridge.

PROJECTS =

Ionosphere Signal Predictions

Jul 2020 - Aug 2020.

The objective of the project is to measure the accuracies of 'good' instances and 'bad' cases by feeding the dataset to **KNN**, **GLM**, **decision trees**.

Hand-Written Image Predictions

Jul 2020 - Aug 2020.

- Generated 28X28 grayscale images which represents a handwritten digit starting from 0 to 9 integers, utilized **CART algorithm**.
- Predicted the pixel values for the 785 regression trees and observed the combined output were resulting the handwritten digits.

StreetVibe Cloud for IoT Sensors

Jan 2020 - Jun 2020.

- Primary contributor in building the first edition of Streetvibe platform for the NearSky360 devices and launched it within 3 months.
- Developed a communication channel between MongoDB atlas cluster with a Java based visualization tool through MySQL BI connector.

Alcohol Effect - Student Grades

Jun 2019 - Aug 2019.

- Predicted alcohol effect on grades. Alcohol consumption on weekdays, will reduce the expected average grade from 11.22 to 10.88.
- Found that Alcohol consumption on weekends, will reduce the average predicted grade from 11.19 to 11.17.

CERTIFICATIONS

- AWS Cloud Solutions Architect Professional Jun 2020 Jun 2023.
- Tableau Desktop Developer Apr 2020 Apr 2025.

EDUCATION

Northeastern University, Boston, MA.

GPA: 3.87

Master of professional Studies in Informatics with concentration in Data Analytics.

Relevant Coursework: Predictive Analytics, Data Mining, Probability and Statistics, Data Base Management systems, Information technology Project management, Data Visualization and Business Intelligence, Information Systems Design and Development, Systems and Network Administration.