Lokesh Palacharla

Graduate Candidate with 5+ years of work experience | AWS CSAP | Data Analytics | Computer Vision | Machine Learning | AI

Phone: +1 617-869-9671   **Website:** lokeshpalacharla.com   **Email:** lokeshpalacharla@gmail.com

*Self-motivated data analytics graduate and an **AWS certified Cloud Solutions Architect – professional**, with 5+ 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

CIMCON Lighting Inc.
Oct 2020 – present.

Cloud & Data Specialist

- Led data architecture related assessments and reviews for the **Nearsky** product. Execute **security alerts and event** notifications to develop an alerting module for the **StreetVibe** web application.
- Develop a predictive analytics platform for global smart cities by implementing the **AWS Machine learning** stack.
- Employ the **fleet management** module for managing the **Nearsky** devices mapped to the client from the **StreetVibe** application. Deviced platform as a service, Multi-tenant, robust web applications for clients across multiple verticals in the **Smart City market**.
- Worked as a **Subject Matter expert** for data visualizations and analytics section of Nearsky StreetVibe application.
- Model and articulate major aspects of highly scalable, reliable, and providing technical data solutions that leverage the **AWS cloud platform** to develop **IoT** solutions.
- Discuss and advise engineers and executives to define the technology stack's right choice and serve as a **leading technical expert on Data**.
- Experienced in architecting systems comprising one or more of the following: **AWS IoT analytics, IoT Core, Kinesis, RDS, Lambda, Cognito, Docker, Hadoop, Hive, MongoDB, Metabase.**
- Supervise the **strategic vision**, align **roadmaps**, and requirements. Build and maintain technical, trusted advisor relationships with all organizational levels, from technical experts to senior executives.
- Accelerate innovation by detecting **high-impact**, repeatable solutions for enterprises, iteratively deploying them to accomplish **cost-effective** results.

CIMCON Lighting.
Jan 2020 – Jul 2020.

Data Engineer

- Built a multi-tenant robust visualization platform for smart cities in the USA and across the globe, utilizing **AWS IoT** stack.
- Worked on **AWS Cognito**, **IoT Analytics, Glue, Athena, Lambda** to stand up a user role-based authentication system which can be collaborated with 3rd 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 **cloud-based** application that mainly focused on public safety, environmental, safe mobility, waste management verticals.
- Analyzed the Air Quality across different regions by calculating the **Air Quality Index**, figured out the traffic prone areas across regions, which was the most demanded product by the clients.
- 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.
- The cloud dashboard application was recognized as the best in the IoT market by AWS QuickSight and featured it on their website.

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.
- Verifying setup such as Hierarchy, financial options, document types, approval group, approval assignment, **Min-Max Planning**, defining different types, transfers and defining **Organization**.
- Evaluated **sales & marketing** team's performance by preparing a semi-automated operations deck which keeps track of backlog tickets of the entire team and visualized them in **Tableau, exce**l.

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, MongoDB Atlas, Azure, Cosmos DB, 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.
Amazon Web Services:	S3, RDS, lambda, Athena, Glue, Dynamo DB, Cognito, IoT Analytics, Kinesis, IoT events, EKS, 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**.
- Implemented ensambling techniques to **improve the overall performance** of the models to 94%.

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 NearSky 360 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.

Firepower Tool - Legacy and ERP Support   *Apr 2017 – Dec 2018.*
- Mainly worked on **commissioning and reporting module (Finance)** of the project which deals with calculating the sales done by the company and populating reports for the forecasting of the sales.
- Fixed **2M$ sweet reward accruals** of the ASM's which were missing in Firepower and brought it in sync with Spiff application.

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.