

Lakshman Singh

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Sector 66, Noida (Uttar-Pradesh)

PROFESSIONAL SUMMARY

Experienced Backend Engineer with a strong background in Python and AWS services, seeking a position in a growth-oriented company to leverage my software engineering skills in delivering high-end solutions.

EXPERIENCE

Simultaneous Geographical Reality Labs Pvt. Ltd, Gurugram (Haryana) (Python Developer) July 2023 – April 2024

Roles And Responsibilities :-

- Developed and designed the Processing modules for Hyperspectral Data or Image Processing Application using Python and PyQt5.
- Implemented efficient data loading and processing algorithms, utilizing techniques such as threading and memory-mapping, significantly reducing processing times for large data sets.
- Enhanced feature visibility and data quality in hyperspectral images through histogram equalization, spatial filtering, and automated removal of bad bands and pixels.

IOanyT Innovations Pvt. Ltd, Noida (Uttar-Pradesh)

(Software Engineer) July 2022 – February 2023

Roles And Responsibilities :-

- Leveraged AWS Lambda functions, API Gateways, AWS Cloud Watch, Event Bridge and other cloud services to build and deploy serverless architectures.
- Contributed to the development of the CarVer Motor Insurance Application, a platform that streamlines motor insurance purchasing in Zambia through web, app, and USSD channels.
- Implemented robust backend mechanisms, including a notification system for timely alerts to admins, users, and insurance agents.
- Analyzed data and created reports on daily and monthly insurance transactions using Pandas and RESTful APIs, providing valuable insights for management.

PROJECTS

Hyperspectral Data Processing and Analysis Software

- Developed a comprehensive solution for DRDO, enabling advanced processing of hyperspectral images.
- Role:** Application development, testing, deployment, post-live maintenance, and debugging.
- Technologies Used:** Python, PyQt5, NumPy

CarVer - Motor Insurance Application

- Developed an innovative online platform for purchasing motor insurance in Zambia.
- Role:** Application development, testing, post-live maintenance, and debugging.
- Technologies Used:** Python, AWS Lambda, DynamoDB, API Gateways, Cloud Watch, Event Bridge, S3, SES, SNS

SKILLS

Programming Language – Python

Databases – DynamoDB, PostgreSQL

Familiar With – Django Rest Framework, FastAPI, MongoDB, MySQL, Flask, Numpy, Pandas

AWS – Lambda, DynamoDB, API Gateways, Cloud Watch, Event Bridge, S3, SES, SNS

EDUCATION

Graphic Era Deemed To Be University, Dehradun (Uttarakhand)

Bachelor in Mechanical Engineering (July 2015 - July 2019)

CGPA 7.15

S. V. M. Inter College, Gairsain (Chamoli)

Higher Secondary School (July 2014 - May 2015)

75.4%

A. V. M. Inter College, Gopeshwar (Chamoli) -

Secondary School (April 2011 - May 2012)

78.8%