

Suraj Tripathy

+91-8984124000 | suraj.tripathy007@gmail.com | [linkedin.com/in/suraj-tripathy](https://www.linkedin.com/in/suraj-tripathy) | github.com/surajtripathy
<https://surajtripathy.github.io/portfolio/>

EDUCATION

IIIT Bhubaneswar

Bachelor of Technology in Electronics and Telecommunication Engineering
7.53

Bhubaneswar, India

June 2019

EXPERIENCE

Python Developer Engineer

Animaker Inc.

Feb 2021 – Present

Bangalore, India

- Built custom Thumbor implementation for dynamic watermark filter
- Re-designed the authentication flow for dashboard APIs and added extra time based security
- Designed and implemented api-secret based access for 3rd party integrations with Hubspot and Salesforce
- Designed system wide event triggering and storing pub/sub architecture using Kafka.
- Created system wide webhook integration system for event triggering
- Added provisions to provide “guides” to new users

Software Engineer

GeoSpark (now Roam.ai)

Jan 2020 – Feb 2021

Bangalore, India

- Built the GeoSpark Python SDK based on pub/sub architecture from scratch and was responsible for maintaining it at PyPI
- Re-engineered the pipeline for server side location updates from devices using AWS IoT and Kinesis data streams.
- Implemented “Smart Home and Work detection” API which has more than 10K requests per month
- Implemented “Nearby” API which allows users to fetch nearby users within a radius
- Introduced a Kalman filter based dynamic position estimation algorithm which improved the location accuracy by 20% under poor-GPS conditions
- Initiated a custom snap-to-road location matching algorithm based on OSRM services which reduced location drifts by 35%
- Implemented a custom location visualization tool based on Kepler.gl for data visualization of internal team.
- Implemented S2S Event logging for internal Data Attribution, User management, Digital targeting in AppsFlyer, Branch, Clevertap, Adjust
- Established business rules for User Suspension, Customer ticket reduction
- Implemented a Spring-boot based micro-service to send and receive messages and events to and from a Kafka Cluster deployed in EC2 instance
- Enabled Kafka-connect service to log events to AWS S3

Associate System Engineer

IBM

July 2019 – Jan 2020

Bangalore, India

- Trained as a SAP MM Package Specialist

SKILLS

Languages: Python, Java

Frameworks: Django, Flask, Spring Boot

Databases:: MySQL, MongoDB, Redis, Elasticsearch

Cloud Technologies:: AWS S3, AWS EC2, AWS Lambda, AWS Elasticache, AWS IoT

Developer Tools: Git, VSCode, PyCharm, IntelliJ, Postman, Robo3t, Kibana, Docker

Libraries: Pandas, PyMongo, Scikit-Learn, OpenCV, Deep Learning with TensorFlow

PUBLICATIONS

1. S. Tripathy, R. Sahoo, A. K. Dash and D. P. Dogra, “Natural Gestures to Interact with 3D Virtual Objects using Deep Learning Framework,” TENCON 2019 - 2019 IEEE Region 10 Conference (TENCON), Kochi, India, 2019, pp. 1363-1368, doi: 10.1109/TENCON.2019.8929637.