

Sagar Giri

Adachi, Tokyo, Japan • girisagar46@gmail.com • sagargiri.com

EDUCATION

Deerwalk Institute of Technology, Kathmandu, Nepal

2016

Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT)

ONLINE CERTIFICATIONS

[AWS Certified Cloud Practitioner](#)

Aug 2020 - Aug 2023

[AWS Certified Solutions Architect – Associate](#)

Mar 2021 - Aug 2024

[Creating and Distributing Python Packages](#) by Two Scoops Press

Mar 2018

TECHNOLOGIES & SKILLS

Python, Java, Django, Django REST Framework, AWS (EC2, S3, RDS, RDS Proxy, Lambda, Athena, SQS, ElastiCache, AWS Batch, Billings), Terraform, MySQL, Cassandra, TDD, Git, GitHub, GitHub Actions, Docker, Kubernetes, JIRA, Confluence, Scrum, API Design, Documentation

WORK EXPERIENCES

[beBit Inc.](#), Tokyo, Japan

Mar 2019 - Present

Software Engineer

- Build backend and supporting services for SAAS application [USERGRAM](#)
 - I am currently wearing the hat of Technical Product Owner for a Multi-Factor Authentication project in USERGRAM. This task involves me in making technical decisions, writing technical specification documents and helping Product Owners on a technical level to meet the customers demand.
 - Create Terraform module for RDS proxy to have AWS-managed connection pooling and performance improvement for lambda functions.
 - Improved the latency of API Gateway by implementing asynchronous DB query using Python's asyncio builtin in one of the lambda functions.
 - REST API development for a feature that consumes the data produced by backend Java services.
 - Worked on an automated email reporting project. This project aims to gather insights from customers' data and provide them with a comprehensive report via email. The tasks involved in this project were architecture design, documentation, development in Python, code reviews, writing kubernetes manifests and deployments using kubernetes cron jobs.
 - Build a data pipeline for transferring the data from Google firebase through Google BiGQuery to AWS S3 using AWS batch job.
 - Use GitHub actions to build a CI/CD pipeline for automated deployment of lambda functions and AWS Batch Jobs.
 - Worked on building a REST API service that executes the Athena query and paginates it so that the query result is finally parsed in Django to present it to the front end. The feature also had the CSV download of the query result, which uses the S3 location of the Athena query to download it.
 - Setup the entire USERGRAM's WordPress blog (<https://blog.usergram.info/>) using t2.medium EC2 instance, ALB, Route53, and periodical content backup to S3.
 - Responsible for fixing an AWS Batch job that collects the feature data for the user clustering using the K-Means algorithm.
 - Responsible for upgrading the Django version from 1.10 to 1.11 (LTS release), which potentially fixed many vulnerabilities associated with v1.10.
 - Worked on improving the performance of services by CQL refactoring and core refactor of one of the core USERGRAM services written in Java.

[Insight Workshop](#), Kathmandu, Nepal

Mar 2018 - Mar 2019

Software Engineer

- Design, develop, and maintain a web portal that tracks insurance agents' activities in different US states. Technologies used: Django 1.11, Celery, Redis, Pandas, Gulp, EC2, S3, MySQL RDS.
 - Architect and design features for insurance salespeople to track leads and client information, give notifications when salespeople should approach potential leads and clients.

- Worked on developing an ETL feature using Lambda function and RDS and S3 events to process the files as soon as they arrive in the S3 bucket, process them and save them to MySQL RDS.
- Responsible for managing EC2 instances, patching them, and deploying new features.
- Design and develop an e-learning platform where software companies can test and track their developer's programming and communicating skills. Technologies used: Django 2, Django Rest Framework, AWS Transcribe, AWS CodePipeline
 - Responsible for the backend services to build the REST API endpoints, which receives the recorded video, saves to S3, triggers lambda to process the video by separating audio from video, and creates audio transcription using AWS Transcribe.

Deerwalk Training Center, Kathmandu, Nepal

Dec 2017 - Jan 2019

Part-time Python and Django Instructor

- Taught Python programming language and Django web framework
 - Taught introductory Python to approximately 30 students who were recently graduated from college to prepare them for python developer jobs
 - Taught the Django web framework as the second module to those same students.
 - My responsibilities were to give feedback to the submitted assignments, help them on their projects, grade their projects.

Deerwalk Institute of Technology, Kathmandu, Nepal

Oct 2017 - Jan 2019

Part-time Python Instructor

- Taught programming in Python to students who are pursuing a bachelor's degree in computer science and IT
- Conduct term wise examination and grade papers of students

Parewa Labs, Lalitpur, Nepal

Aug 2017 - Mar 2018

Part-time Content Writer

- Wrote 11 Java tutorial articles on different topics like (Access Modifiers, Constructors, Lambda expression, Packages, Recursion, Nested and Inner classes, etc.) for www.programiz.com

Deerwalk Services Pvt. Ltd., Kathmandu, Nepal

June 2017 - Mar 2018

Associate Software Engineer

- Design and develop modules in Groovy and Grails Framework and Java that consume the data from RESTful Web-Service.
- Front-End development of Plan Analytics project in Grails framework and User Interface (UI) implementation on Groovy Server Pages, JavaScript & jQuery, Highcharts, and reporting in Aspose document generation library

Deerwalk Services Pvt. Ltd., Kathmandu, Nepal

Jan 2015 - Feb 2017

Software Developer (Intern)

- Fixing UI related issues in the project, feature addition in the project according to specifications provided
- Primary tasks: Grails version upgrade from Grails 2.5.1 to Grails 3.1.6 for Plan Analytics project

LINKS

GitHub: <https://github.com/girisagar46>

LinkedIn: <https://www.linkedin.com/in/girisagar46/>

StackOverflow: <https://stackoverflow.com/users/story/4494547>