# Sagar Giri

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## EDUCATION

**Deerwalk Institute of Technology,** Kathmandu, Nepal                                     2016
Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT)

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## ONLINE CERTIFICATIONS

AWS Certified Cloud Practitioner                                                          Aug 2020 - Aug 2023
AWS Certified Solutions Architect – Associate                                            Mar 2021 - Mar 2024
Creating and Distributing Python Packages by Two Scoops Press                            Mar 2018

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## TECHNOLOGIES & SKILLS

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

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## WORK EXPERIENCES

**_Kraken Technologies_**, Tokyo, Japan                                                   Nov 2022 - Present
*Software Engineer*

- I am a backend developer for Octopus Energy Japan
  - Python, Django developer

**_beBit Inc._**, Tokyo, Japan                                                            Mar 2019 - Nov 2022
*Software Engineer*

- Build the backend and  supporting services for SAAS application USERGRAM
  - Worked as a Technical Product Owner for a Multi-Factor Authentication project in USERGRAM. I am heavily involved in making technical decisions, writing technical specification documents, managing backlog, delegating tasks, helping Product Owners on a technical level to meet the customer's demand, and make the feature available to customers on time. This project has helped beBit to acquire enterprise clients that contribute to MRR.
  - Create Terraform module for RDS proxy to have AWS-managed connection pooling and performance improvement for lambda functions.
  - Improve the latency of API Gateway by implementing asynchronous DB query using Python's asyncio builtin in one of the lambda functions.
  - REST API development in Django Rest Framework for a feature that consumes the data produced by backend Java services.
  - Work 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 deployment.
  - Work on building a REST API service that executes the Athena query and paginates it so the query result is finally parsed in Django to present to the front end. The feature also had the CSV download of the query result, which uses the S3 location of the Athena query where clients can download report easily.
  - Setup the USERGRAM's WordPress blog (https://blog.usergram.info/) using the "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), potentially fixing 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, store client information, and give notifications when salespeople should approach potential leads and clients.
  - Work 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 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 communication skills.  Technologies used: Django 2, Django Rest Framework, AWS Transcribe, AWS CodePipeline.
  - Responsible for the backend services to build the REST API endpoints, which receive the recorded video, save it to S3, trigger lambda to process the video by separating audio from video, and create audio transcription using AWS Transcribe.

*Reason for leaving: Got software engineer opportunity in Japan to work on more sophisticated and advanced technologies.*

**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

*Reason for leaving: Wanted to work with Python, Django and AWS*

**Deerwalk Services Pvt. Ltd.**, Kathmandu, Nepal                          Jan 2015 - Feb 2017
*Software Developer (Intern)*
- Fixing UI-related issues in the project and 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 the Plan Analytics project

**Extra Exposure**
*Part-time Python and Django Instructor at* **Deerwalk Training Center**, Kathmandu, Nepal     (Dec 2017 - Jan 2019)
*Part-time Python Instructor at* **Deerwalk Institute of Technology**, Kathmandu, Nepal     (Oct 2017 - Jan 2019)
*Part-time Content Writer* for www.programiz.com at **Parewa Labs**, Lalitpur, Nepal     (Aug 2017 - Mar 2018)

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**LINKS**
GitHub: https://github.com/girisagar46
LinkedIn: https://www.linkedin.com/in/girisagar46/