# 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 - Aug 2024
Creating and Distributing Python Packages by Two Scoops Press      Mar 2018

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## 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

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## WORK EXPERIENCES

**beBit Inc.**, Tokyo, Japan                                               Mar 2019 - Present
*Software Engineer*

- Build the 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 making technical decisions, writing technical specification documents, and helping Product Owners on a technical level to meet the customer's demand.
  - 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 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, and 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.
  - Work 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 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), 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 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.

**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 are 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 with their projects, and 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 examinations 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 the Plan Analytics project

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