

# 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

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

Mar 2018

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## SKILLS

Python, Django, Django REST Framework, Pandas, AWS (EC2, S3, RDS, Lambda, Athena, SQS, ElastiCache, AWS Batch, Billings), MySQL Database, TDD, Git, GitHub, GitHub actions, CircleCI, Docker, Kubernetes, JIRA, Confluence, SCRUM

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## WORK EXPERIENCES

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

Mar 2019 - Present

*Software Engineer*

- Build backend and supporting services for SAAS application [USERGRAM](#)
  - Setup the entire USERGRAM's WordPress blog (<https://blog.usergram.info/>) using t2.medium EC2 instance, ALB, Route53, and periodical content backup to S3. Also made it easier for theme/plugin developer to easily develop using Docker and docker-compose.
  - Worked on building a REST API service that executes the Athena query and paginates it so that the query result is parsed in Django to finally present it to the front end. The feature also had the CSV download of the query result which uses the S3 location of Athena query to download it.
  - Worked on three similar projects which consume the response from AWS API Gateway via Django using the requests library and eventually parse it and send the response to the front-end.
  - Built two AWS lambda functions with 100% test coverage for the clustering feature of USERGRAM. These lambda functions were further integrated with the API Gateway to serve as decoupled microservices.
  - Responsible for fixing an AWS Batch job that collects the feature data for the user clustering using the K-Means algorithm.
  - Use GitHub actions to automatically deploy the lambda functions and AWS Batch Jobs.
  - 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 which is 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 states of the USA. Technologies used: Django 1.11, Celery, Redis, Pandas, Gulp, EC2, S3, MySQL RDS
  - Architect and design feature 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 it to MySQL RDS.
  - Responsible for managing EC2 instances, patching it, 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, save 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 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](http://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 along with Java that consumes 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
- Major tasks: Grails version upgrade from Grails 2.5.1 to Grails 3.1.6 for Plan Analytics project

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## LINKS

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

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

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