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)

ONLINE CERTIFICATIONS

AWS Certified Cloud Practitioner   Aug 2020 - Aug 2023
Creating and Distributing Python Packages by Two Scoops Press   Mar 2018

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

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 developers to develop using Docker and docker-compose easily.
  - Worked on building an AWS batch job pipeline in Python for transferring the firebase data from Google BiGQuery to AWS S3.
  - 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 present it to the front end finally. 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 was 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 deploy the lambda functions and AWS Batch Jobs automatically.
  - 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.
  - Worked on an automated email reporting project. This project aims to gather insights from customer's data and provide them a comprehensive report via email.

Insight Workshop, Kathmandu, Nepal   Mar 2018 - Mar 2019
Software Engineer

- Design, develop, and maintain a web portal that tracks insurance agents' activities in different USA 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

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LINKS
GitHub: https://github.com/girisagar46
LinkedIn: https://www.linkedin.com/in/girisagar46/
StackOverflow: https://stackoverflow.com/users/story/4494547