Manideep Reddy Gillela

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ **May 2019**

Master of Science in Computer Engineering | GPA: 3.6

Coursework: Engineering Programming in Python & Java, Design & Analysis of Network Systems, Web Mining, Pattern Recognition & Classification, Computer Organization and Programming, Applied Modeling and Optimization, Digital and Comp Sys Architecture

Osmania University, Hyderabad, India **May 2017**

Bachelor of Engineering in Electronics and Communication Engineering | Cumulative Percentage 77%

TECHNICAL SKILLS

Programming: Working knowledge of Python, Shell scripting and Java
DevOps Tools: GIT, Jenkins, Terraform, Docker, Basics of Kubernetes and Chef
Networking Protocols: TCP/IP, UDP, DNS, DHCP, HTTP, ICMP, HTTPS
Web Technologies: HTML, CSS, Bootstrap, JSON
OS & Cloud Platform: Linux (Ubuntu), Mac, Windows, Amazon Web Services
AWS Technologies: AWS CLI, EC2, S3, Route53, CloudFormation, AWS SAM

CERTIFICATIONS

- **AWS Certified Solutions Architect Associate, 2018**
- **AWS Certified Developer Associate, 2018**
- **AWS Certified SysOps Administrator Associate, 2019**

EXPERIENCE

Cloud Engineer **Ocelot Consulting, St.louis, MO** **July 2019 - Present**

- Aided the pilot phase of implementing Amazon Connect (IVR-Connect) for large enterprise client
- Reduced time by ~50% by developing CloudFormation templates to build staging and production environments
- Indulged and Interacted with 2 teams consisting more than 15 members to identify and troubleshoot various issues
- Developed AWS SAM templates and shell scripts to build serverless AWS resources, thus improving the efficiency in time by ~65%
- Managed consulting and client management, planned specific project needs and delivered results

Research Assistant **Stevens Institute of Technology, Hoboken, NJ** **February 2019 – May 2019**

- Performed research on Narrow Band – Internet of Things (NB -IoT) for transmitting and receiving modulated signals
- Developed software code for both up-link and down-link NB-IOT transceivers

Global Services, IT- Intern **Systech International, Princeton, NJ** **June 2018 – August 2018**

- Re-designed SharePoint based scheduler application for large chain of events using responsive UI features
- Improved application efficiency by ~50%, utilized Day Pilot scheduler in AngularJS
- Aided build-to-deploy infrastructure on AWS cloud using CodeBuild, CodePipeline and CodeDeploy
- Automated processes by creating CLI tools for using shell scripting, Python and time-consuming processes by using InfoPath forms
- Provisioned highly available environments with VPC, EC2, Autoscaling groups and load balancers using Terraform (IAC)

PROJECTS

Independent Projects

Serverless WebApp **November 2019**

- Built a serverless web application using AWS Fargate and AWS S3
- Written a Docker file to deploy a Python flask API in container running through AWS Fargate
- Created and Configured S3 bucket for hosting static web content

AWS-EC2 Backup Tool **March 2019**

- Built Unix CLI tool to backup 100's of GB of data to an Elastic Block Store volume in the AWS cloud using Python
- Utilized AWS SDK – boto3 to manage and retrieve attributes like state and instance ID of AWS EC2 instances
- Written required functions in Python to create, attach ec2 instances and EBS volumes to save ~5 minutes on every backup.

Academic Projects

Good for Kids Prediction for Yelp Data Using Python **October 2018 - November 2018**

- Built a predictive model with ~80 percent accuracy using Python
- Scraped data by running scripts in AWS ec2-instances for 50,000 restaurants using selenium webdriver
- Performed text mining on the extracted data to label each restaurant whether it is good for kids
- Classified using Naive Bayes and Grid search algorithms and predicted accuracy

Robot Boat **October 2017 - November 2017**

- Employed Java to generate a simulation boat to calculate the latitudes and longitudes between user specified points
- Designed a virtual boat consisting various components using Java swing and abstract window tool kit (AWT)
- Implemented a graphical user interface (GUI) to simulate the boat