

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: Python, Shell scripting, Java, HTML, CSS, Bootstrap, JSON

DevOps Tools: GIT, Jenkins, Terraform, Docker, Basics of Kubernetes, Chef

Networking Protocols: TCP/IP, UDP, DNS, DHCP, HTTP, ICMP, HTTPS

OS & Cloud Platform: Linux (Ubuntu), UNIX, Windows, Amazon Web Services, Alexa skill Development

AWS Technologies: AWS CLI, EC2, S3, Route53, CloudFormation, AWS SAM, AWS Lambda, CodePipeline, CodeDeploy

CERTIFICATIONS

- **AWS Certified Advanced Networking Specialty – 2020 || AWS Certified SysOps Administrator Associate - 2019**
- **AWS Certified Solutions Architect Associate – 2018 || AWS Certified Developer Associate – 2018**

EXPERIENCE

Cloud Engineer

Ocelot Consulting, St.louis, MO

July 2019 - Present

- Aided the implementation of Amazon Connect (IVR-Connect) for a large enterprise client
- Built CI/CD pipelines for multiple teams on AWS cloud using CodeCommit, CodePipeline and CodeBuild
- 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 CodeCommit, 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

Covid -19 Notification System

September 2020 - Present

- Programmed AWS Lambda to collect the Covid -19 daily new cases through open source API's and store the data in AWS S3
- Utilized AWS CloudWatch Events to invoke Lambda function and notify the user with the Covid-19 information message using SNS
- Automated the deployment of required infrastructure on AWS Cloud using AWS SAM template
- Developed Alexa skill using Python to enable voice based interaction, which retrieves the data from S3, based on the user's request
- Forecasted future 10 days of Covid-19 daily new cases for over 100 data points with Facebook Prophet and produced RMSE, MAE

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

- Generated a simulation boat using Java 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