Manideep Reddy Gillela

70 Lincoln Street, Apt 2, Jersey City, NJ, 07307 | 551.227.5351 | mgillela@stevens.edu
www.github.com/manideep1116 | www.manideepreddy.com | www.linkedin.com/in/manideep-reddy-gillela/

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, Real-time & Embedded Systems, 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
DevOps Tools: GIT, Jenkins, Terraform, Docker, Kubernetes, Ansible, Chef, Basics of Puppet
Networking Protocols: TCP/IP, UDP, DNS, DHCP, HTTP, ICMP, HTTPS
Web Technologies: HTML, CSS, Bootstrap, JSON
OS & Cloud Platform: Linux (Ubuntu), Windows, Amazon Web Services
AWS Technologies: AWS CLI, EC2, S3, Route53, CloudFormation, Opsworks, ECS, EKS, CodePipeline, CodeDeploy, CodeCommit

CERTIFICATIONS

- **AWS Certified Solutions Architect Associate, 2018**
- **AWS Certified Developer Associate, 2018**

EXPERIENCE

Stevens Institute of Technology, Hoboken, NJ **Spring 2019**
Research Assistant
- Perform research on Narrow Band – Internet of Things (NB -IoT) for transmitting and receiving modulated signals
- Develop software code for both up-link and down-link NB-IOT transceivers

Systech International, Princeton, NJ **June 2018 – August 2018**
Global Services, IT- Intern
- 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
- Developed build-to-deploy (CI/CD Pipleine) 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
- Provisoned highly available environments with VPC, EC2, Autoscaling groups and load balancers using Terraform (IAC)
- Created Identity Access Management users, groups and roles for improved login authentication and cross account access

PROJECTS

Independent Projects

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.

Webapp by Jenkins and Docker **November 2018**
- Deployed a web application on Docker through Jenkins using "publish-over-ssh" plug-in
- Configured Jenkins and Docker on AWS ec2-instances. Built and tested the code on Jenkins, sourced from git
- Wrote a docker file to create a docker image of apache web server and executed commands through Jenkins to run container

Apache by Chef **November 2018**
- Configured chef-workstation and node servers on AWS ec2-instances.
- Created cookbooks and wrote recipes to configure Apache web server. Wrote required attributes and templates for recipe
- Deployed multiple custom home pages on multiple ports

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