

## ELANGO M

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Chennai

### OBJECTIVE

To become a key technical resource for an organization, where I am able to explore my full potential, add to my learning curve, as well as contribute effectively and efficiently to achieve organizational goals

### PROFESSIONAL EXPERIENCE

- Having 9+ years of professional experience.
- Having 5+ years (June 2017 to Present) of experience as a Python Developer in Pantech Solution - Chennai
- Having 4+ Years (Dec 2012 to May 2017) as a Project engineer on Embedded C in Pantech Solution – Hyderabad

### PROFESSIONAL SUMMARY

- **Senior Software Engineer** with 9+ years of experience.
- 5 years of experience in developing the web applications using **Python and Django** webFramework.
- Having 4 years of **AWS Engineer** experience(**EC2, S3,RDS,IAM,Lambda,VPC,R53,ELB,ASG,CF,Cloudwatch**)
- Having 2 years of experience in **MYSQL** database.
- Managing VPC, Subnets and make connection between different zones; blocking suspicious IP/subnet via ACL
- Created **IAM** for roles, users, groups also implemented MFA to provide additional security to AWS account
- Manage ACM for SSL certificates with AWS services and internal connected resources.
- Implemented DNS through **Route 53** to have highly available and scalable applications.
- Experience in **Agile Technologies** such as scrum
- Designing and Deploying highly scalable infrastructure using ELB and Auto Scaling services
- Create and maintain CI/CD pipelines for Code deployment in AWS
- Experience on using version control management tool **GIT** and its web repositories in GitHub for SCM.
- Experience on **Docker** files to build the Docker images and volumes for manage the Docker hub
- Expertise in writing playbooks for installing the packages like Apache, MySQL, Nginx in EC2 Linux machines
- Knowledge on building AWS infrastructure by using **Terraform**.
- Extensive Knowledge on writing adhoc command and playbook by using Yaml file in **Ansible** configuration management and application deployment tool

## TECHNICAL SKILL SET

Language:	Python
Framework:	Django
Database:	MySQL
Cloud Technology:	AWS
Version Control System:	GIT
Python Libraries:	OpenCV, Pandas
Configuration Management Tools:	Ansible, Terraform
Containerization:	Docker
CI/CD:	Jenkins
Deployment Tools/ Servers:	Apache, Tomcat, Nginx, Unicorn

## PROJECTS

Project #1	
Duration:	Feb 2021 – Present
Technologies:	Python, MySQL, OpenCV, EC2,S3,RDS,Lambda
Description:	Here all the entry of person and vehicle images in shopping complex capture and store in AWS also all working employee details stored in RDS, finally using OCR technique converting the text to speech for visually impaired people
Role:	AWS software Engineer
Responsibilities:	<ul style="list-style-type: none"> <li>Develop the OpenCV application for capture &amp; save images in local system</li> <li>Created S3 buckets with ACL policy in the AWS environment for store files</li> <li>Develop python scripts using Boto3 SDK for interact with CLI to S3 buckets</li> <li>Maintain AWS lambda function for S3 bucket backup</li> <li>Develop python modules for manage the MySQL source database in RDS.</li> <li>Maintain the user information in RDS</li> <li>Setup and managed security groups, VPC to specific environment</li> <li>Maintaining the IAM policies for create users, groups, and define rules for role based access to AWS resources.</li> <li>Deploy RDS and S3 in EC2 server and host the static website using S3</li> <li>Created snapshots to take backups of the volumes also images to store launch configurations of the EC2 instances.</li> <li>Manage lifecycle policies for transfer the storage classes in S3</li> <li>Implement the OCR techniques for text to speech process</li> <li>Maintain GIT Repo, Handling Releases and Branching activities for Github</li> <li>Review and implement the DR plan</li> </ul>

Project #2	
Duration:	Jan 2019 – Oct 2020
Technologies:	Python, Django ,EC2,S3,RDS,ELB,R53
Description:	In hospital all the activities implement through web application. Here patient, doctor and admin section available. All the hospital activity like appointment, patient status, appoint new doctor, discharge patient, receipt etc. all can implement in web development and monitor through EC2
Role:	AWS software Engineer
Responsibilities:	<ul style="list-style-type: none"> <li>• Develop python script for hospital admin activity like confirm the appointment, patient status, doctor availability and bill generate in django framework</li> <li>• Deployed Django application on EC2 instances using gunicorn and NGINX</li> <li>• Manage AWS certificate manager for connect certificate with internal AWS resources</li> <li>• Manage the DNS records and create subdomain in ACM and R53</li> <li>• Implemented AWS high-availability using AWS Elastic Load Balancing (ELB), which performed balance and traffic across the instances</li> <li>• Maintain website using word press application for content management system</li> <li>• Maintain 2 Server in EC2 &amp; RDS(Production &amp; Backup) and data synchronize between these two server by using S3</li> <li>• Set CRONTAB jobs in the EC2 for some small intervals to copy the data from production server to S3 then S3 to backup server</li> <li>• Manage the IAM role &amp; MFA for give more security to connect with our resources</li> <li>• Utilized Cloud Watch to monitor resources such as EC2, CPU memory to set alarms for notification or automated actions;</li> <li>• Involved in all client communications in functional as well as technical related issues</li> </ul>

Project #3	
Duration:	June 2017 – Sep 2018
Technologies:	Python, OpenCV, Django, EC2,VPC,Lambda,ASG
Description:	In Industry, all the hardware devices connect with RPI then Control that devices from cloud also for security purpose motion object detect and saved in the file and we use the robot section for pick and place the object.
Role:	AWS software Engineer
Responsibilities:	<ul style="list-style-type: none"> <li>• Develop the python script for control the devices</li> <li>• Deployed django application on AWS EC2 instances using NGINX and Gunicorn</li> <li>• Develop the AWS lambda function with cloud watch application for start and stop the EC2 instances on schedule time</li> <li>• Develop the python script using Boto3 for manage AWS services and deployment</li> <li>• Maintain the VPC, Subnet, IGW, Route table and security group</li> <li>• Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts</li> <li>• Deploy the API service with Lambda function configuration</li> <li>• Manage the instance utility performance using auto scaling group</li> <li>• Attaching or Detaching EBS volume to AWS EC2 instance</li> <li>• Implement the OpenCV application for motion start and end time detection</li> <li>• Implement the robot Section for pick up the objects and connect the sensors, switching devices with RPI</li> <li>• Responsible for tagging and maintain code on version control tool</li> </ul>

## EDUCATIONAL SKILLS

Qualification	Specialization	University/Board	Percentage	Year of Passing
BE	ECE	Anna university	69%	2010
XII		State Board	68%	2006
X		State Board	79%	2004

## PERSONAL DETAILS

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Father Name : Mr. Murugesan R  
Date of birth : 12.03.1989  
Sex : Male  
Marital Status : Married  
Linguistic Ability : English, Tamil, Telugu.

## DECLARATION

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I hereby declare that the above written particulars are true to the best of my knowledge.

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