

Muruganandham Selvamani

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Summary

As a software engineer with a solid foundation from Pondicherry University, I specialise in Python programming, focusing on Django for PLM/ERP systems. My 6-year career has been dedicated to developing Python-based solutions, including relational databases and electronic projects, and deploying and managing high-capacity Linux servers (up to 256GB RAM, 80 CPUs) in cloud environments like AWS. My Python skills have been crucial in creating scalable, efficient applications for business, chatbots, and enterprise software. Additionally, I possess intermediate skills in front-end development with JavaScript and React, enabling me to contribute to full-stack projects by integrating dynamic user interfaces with robust back-end systems, demonstrating my proficiency and commitment to using cutting-edge technologies to drive technological advancements.

Skills

+Programming Language: Python, JavaScript

+Experienced Frameworks and Packages: Django, pandas, ReactJs, Terraform, JQuery, Celery, Redis, Rabbitmq, Python multiprocessing(concurrent), MultiThreading, RPi, Flask, Flower and Html & CSS

+Basic Known Packages: AngularJs, Numpy, shell scripting.

+GitOps: Terraform (TFE workspace and Scalr) CI/CD (Gitlab Pipelene, GitHub Actions)

+Known Operating System: Linux (Ubuntu, Kali-Linux, Raspian-pixel), Windows, macOS.

+Software: VSCode, PgAdmin, Excel, Adobe Photoshop, Adobe Premiere pro.

+Database: PostgreSQL, MYSQL, MangoDB

+Version Control: Git (Github, Bitbucket)

+Cloud Computing: AWS EC2, AWS RDS, AWS Lambda and Bare Metal VPS, Digital Ocean

Technical Experience

Senior Software Engineer:

2021-present

Accenture, **web:** <https://www.accenture.com/>

Role: Backend Architect and Developer on AWS. Major programming in Python and Terraform

Type: Office

Python Developer:

2019-2021

Iness Global Solutions, Inc, **web:** <https://inesssolutions.com>

Role: Full Stack Developer with Python(Django, pandas, Django ORM), Python Trainer, server admin along with leading the project for a Commodity management tool and Deploying new application in server and managing server in AWS

Type: Office

Developer:

2018-2019

Role: Created websites for local shops, Support application thought bot(s) and electronic automation.

type: Freelancer(College internship)

Projects

TITLE: Commodity Management Tool

DESCRIPTION: The project was developed for a server Manufacturer to procure the parts from 1000(s) of manufacturers around the globe, we designed to get the quote from the manufacturers and apply our logic to get the parts for a low price with low-risk profiled suppliers for solo source and multi-source part(s).

Team Size: 2-dev 2-functional 1-tester

Level: Advanced

ROLE: Technical Project Leader

Contribution: Designed Business logic for all modules in the Tool on Django ORM, Frontend with JQuery for UI/UX (Bootstrap 4), Automated Email modules (SMTP) for getting a quote from supplier, also handling email which receives back from the supplier (IMAP4) and browser notification, Analytical dashboard and guiding juniors to implement good practices on development.

Location: InEss Global Solutions, Bangalore

Major Package and Framework Used: Django, PostgreSQL, JQuery, Celery (To Handle task in concurrently) and Apache2

TITLE: Insurance Related Project

DESCRIPTION: Developed backend for a Insurance Client to Verify the coverage of the claim (As per Non-disclosure agreements can't explain it in detail)

Team Size: 2-dev 1-functional 1-tester 2-UI/UX

Level: Advanced

ROLE: Architect and Backend Design Engineer

Contribution: Worked on Designing the Backend part with AWS Infra, we used AWS Lambda as its is event-driven system, API Gateway, SQS, SNS(trigger from another team to start the flow).Developer Terraform code to maintain the Whole infrastructure on the code not Manual configuration needed on AWS console.

Location: Accenture, Bangalore

Major Package and Framework Used: AWS API Gateway, Lambda, SQS, SNS, ELB, EC2, S3, RDS Postgresql, Terraform, Haricorp Vault, CI/CD pipeline and Python programming for the Low-level logic on Lambda processor.

Education

Bachelor of Technology: Electronics and Communication Engineering

2015-2019

PKIET-Karaikal, Pondicherry University

CGPA: 7.02/10

Relevant Coursework: Digital circuits, Wireless Communication, Circuit Analysis, Microprocessor and Digital Communication.

HSC:

2015

ST Mary's Higher Secondary School, Karaikal, TN Board

Percentage:72.58%