AVADH BIHARI GUPTA

9559888233

Solutions-driven programmer with 7**+ years** of experience in modular and object-oriented programming. Well-versed in all phases of the software development life cycle, with a good knowledge of algorithms and data structures.

EDUCATION

Year	Degree/Certificate	Institute/School	Score	
2015	B. Tech - MTech, Dual Degree	IIT Kanpur, Electrical Engineering	7.2/10 (UG)	6.4/10 (PG)

Technology Summary	
Programming	Python, Scala, Java, C, HTML, JavaScript, Angular JS.
Databases	MySQL, Mongo DB, Elastic Search, Redis.
Messaging Queue	RabbitMQ, Amazon SQS, web sockets
Web Frameworks	Django, Spring-MVC
Tools and system	Git hub, IntelliJ, Vim, eclipse, PyCharm, Spyder, Linux, mac, windows(all)
Web Servers	Nginx, uwsgi
Cloud Tech	Docker, Ansible, AWS (IAM, Lambda, S3, SQS, SNS, Dynamo DB, Document DB, Athena, Glue, KMS, Boto3, Cloud formation, SAM.)
CICD	Jira, Jenkins. sonarqube

WORK EXPERIENCE

Coforge Lmt, Technolgy Specialist – Software Engineering (5 June 2023 till now)	
Responsibility	▪ Part of Engineering Team
Tech Stack	▪ Python, AWS

Innominds, Principal Engineer – Software Engineering (18 August 2022 to 2 June 2023)	
Responsibility	▪ Part of Engineering Team
Tech Stack	▪ Python, AWS – IAM, IoT core, Kinesis, Lambda, S3, Dynamo DB, API Gateway, KMS, Boto3, Cloud formation, SAM.

WatchGuard India, Senior Software Engineer (October 2020 to August 2022)	
Responsibility	▪ Member of Cloud R&D Team
Tech Stack	▪ Python, AWS – IAM, Lambda, S3, SQS, SNS, Dynamo DB, Document DB, Athena, Glue, KMS, Boto3, Cloud formation, SAM.

TASK	▪ Dark web monitoring
APPROACH	▪ Designed a system from scratch to support dark web monitoring as a module in watchguard. ▪ Worked on AWS serverless architecture. ▪ Used Python-lambda, DynamoDB, SNS, SQS, S3, IAM etc.

Socure, Software Engineer (April 2020 to September 2020)	
Responsibility	▪ Part of Engineering Team
Tech Stack	▪ Worked on Python and Scala – maven for development ▪ Amazon SQS service for queue messaging ▪ Using memchache for caching ▪ Using MySql for database. ▪ Docker and AWS deployment

Viasat, Software Developer-2 (January 2017 to April 2020)	
TASK	▪ To create a billing software system for NBN(Australia) network.
APPROACH	▪ Designed a system from scratch to support Viasat billing of network used in NBN. ▪ Used python web sockets to receive network usage notification from a messaging queue. ▪ Used mongo dB to store the network usage information. ▪ Used python sftp library to upload csv/excel reports to NBN MFT server. ▪ Cron jobs are set to run python script, which responsible of creating and uploading all usage reports. ▪ Some reports are like usage per beam, alerts if usage exceeds allocated, usage per macs, total usage of the day and marking the busiest hours. ▪ Used Linux send mail services for notifications. ▪ Used Docker and Ansible for deployment.
TASK	▪ Traffic Management system.
APPROACH	▪ Programmed a python script to navigate users from a busy hour. ▪ Used elastic search to fetch data of users from databus. ▪ Stored data in mongo DB. ▪ A Cron job is set to find the busy hour and users in busy hours. ▪ System notification to user to shift to another time with incentives details.
TASK	▪ Secret Manger tool.
APPROACH	▪ A secret way to store secretive information like username, pass, tokens etc. ▪ A well dockerized (root privileged) python application which teams need to deploy for storing the information. ▪ Three layer of protections. Once within team application, secondly by an encryption function and thirdly by root.
TASK	▪ A new set of usage report requirements for multiple MSPs
APPROACH	▪ Extended the previously developed billing software. ▪ Added new MSPs like Viasat which are using NBN networks. ▪ Used Django to expose API to user for generating any report.
TASK	▪ AWS VM deployment
APPROACH	▪ Wrote ansible script to deploy AWS EC2 Linux virtual machine. ▪ Configured security, ports and ldap authentication for VM.
TASK	▪ Classifier tool

APPROACH	▪ Python -Django based application to resolve faulty modem. ▪ Used python requests/shell scripting/regex extensively to get information from multiple stake holders. ▪ Used mongo DB for storing the details of macs. ▪ Used Rabbit Mq for messaging. ▪ Developed dashboard to query and examine different modems status. ▪ Used Django web framework to expose APIs to web

TASK	▪ Vdash Framework
APPROACH	▪ A data driven generic dashboard framework for teams looking to create a dashboards/portal ▪ Developed using the MEAN stack and Django. ▪ Used Adapter pattern in Django to connect with multiple data sources. ▪ Used Ldap for authentication and authorization, SQLite's for database. ▪ Worked deeply with different stakeholder to understand the requirement of dashboards. ▪ Demonstrated to multiple teams to use Vdash framework to monitor multiple application at one place. ▪ Used Docker and Ansible for deployment.

Policy Bazaar, Software Developer (August 2015 – December 2016)	
TASK	▪ To integrate Paytm as a payment gateway model along with policy bazaar official website.
APPROACH	▪ Used Java-spring web framework to implement. ▪ Used Oauth 2.0 for security authentication. ▪ Used mongo dB for storing and accessing data regarding each functionality involved.
TASK	▪ Notifications sending and Excel report generating services.
APPROACH	▪ Used java Mail api to send emails under various requirements. ▪ Worked deeply in querying and aggregating data from mongo db database. ▪ Wrote code for generating excel reports.
TASK	▪ To build Paisa Tracker finance managerial app (A module within Paisa Bazaar mobile app)
APPROACH	▪ Parsed sms using regular expression and extract the properties within it. ▪ Used MySQL database to store information. ▪ Used Django Web framework for dynamically managing each process. ▪ Used Nginx web server with uwsgi application server for web deployment.