Sorena Sirousi

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WORK EXPERIENCE

01/2024 – CURRENT Turin, Italy
PYTHON DEVELOPER ALTEN

- Developing Python scripts to evaluate critical performance metrics of different satellite configurations ensuring optimal service by thoroughly testing configurations in various scenarios.
- Automating the scripts to run them from automation platforms like RunDeck and publish the results to Confluence using Apache Kafka.
- Writing scripts for web scraping using Python libraries like Beautiful Soup, Selenium and Requests to collect data from different APIs or internal service websites.
- Installing the required dependencies on Linux virtual machines with Bash, troubleshooting the dependency conflicts when they arise, and migrating the scripts to newer versions of Python and utilized libraries when required.
- Writing SQL queries to analyze performance data, ensuring a comprehensive review of results.
- Creating detailed graphical representation of performance data using Python and Tableau, to identify trends, potential issues, and areas for improvement across various satellite configurations.

03/2022 – 09/2023 Turin, Italy
QA ENGINEER CAPGEMINI ENGINEERING

- Conducted comprehensive testing of network gateways using Python and Wireshark to analyze traffic patterns and packet data, ensuring client requirements were met under various scenarios.-
- Managed and maintained an extensive bug report database, providing detailed documentation of issues, severity levels, and steps to reproduce, streamlining communication between development and QA teams and facilitating faster issue resolution.
- Developed a comprehensive training guideline for newly hired engineers, outlining the procedures and tools required for effective gateway testing, bug reporting, contributing to faster onboarding and skill development.

10/2021 – 03/2022 Turin, Italy
TELECOMMUNICATIONS ENGINEER CGM CONSULTING

- Collaborated within a cross-functional team responsible for certifying cellular devices across 2G, 4G, VoLTE, and 5G networks, ensuring full product compatibility with carrier standards and delivering optimal quality of service (QoS) for end users.
- Utilized advanced packet analysis tools, including Wireshark, QXDM, Shannon, and ELT, alongside devices like RF Shielded Boxes and Spectrum Analyzers, to conduct in-depth validation of device performance. This testing encompassed signal integrity, RF performance, and network interaction, ensuring all devices met stringent functional and performance criteria before market release.

LANGUAGE SKILLS

Mother tongue(s): **PERSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
ITALIAN	B2	C1	B2	B2	B2

DIGITAL SKILLS

Languages

Python │ Java │ Javascript │ Bash │ SQL

Web

HTML │ CSS │ Bootstrap

Frameworks and Libraries

Spring │ Spring Boot │ Hibernate │ JUnit │ Requests │ Selenium │ Numpy │ Pandas

Tools

Git │ Maven │ Linux │ Docker │ Apache Kafka │ Postman │ AWS

Database Services

PostgreSQL │ MySQL │ Redis

PROJECTS

08/2024 – 09/2024
Spring Boot Fitness Tracker Application with Cloud Deployment

- Developed a fitness tracker app using Java Spring Boot, implementing OAuth2 to enable users login and enter exercise history for various workout days through a Thymeleaf-powered webpage.
- Integrated with a relational database hosted on AWS RDS, providing persistent storage of user exercise data with robust performance.
- Deployed the application on AWS Elastic Beanstalk for seamless scalability and easy management of the backend service, while ensuring high availability.
- Automated data analysis with an AWS Lambda function to fetch exercise data every two weeks, process it, and generate visual progress reports and send to the user via AWS SNS notification.

08/2023 – 09/2024
Automated Cloud-based File Transfer System

- Created a solution for secure file delivery between two different VPCs using AWS Lambda, SQS, EC2 and S3 services.
- Uitilized an SQS queue as a link to send messages from an EC2 instance in the first VPC to an Auto Scaling Groupbacked EC2 instance in the second VPC.
- Implemented failure handling, where the second EC2 instance would activate a Lambda function causing to send an SNS notification to the user in case of the first instance's failure.
- Established a fully automated and seamless data delivery system without need for human intervention.

06/2023 – 07/2023
Weather Notification System on the Cloud

- Developed a Cloud-based weather notification system enabling users to receive real-time weather condition updates through a Telegram bot.
- Created a model in which user can send latitude and longitude to an SQS queue which triggers an AWS Lambda function which downloads weather data and sends it back to the user as an SNS notification.

EDUCATION AND TRAINING

09/2018 – 10/2022 Bologna, Italy
MASTER OF SCIENCE IN TELECOMMUNICATION ENGINEERING University of Bologna

09/2012 – 06/2017 Iran
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING University of Gilan

04/2023
AWS SOLUTIONS ARCHITECT - ASSOCIATE CERTIFICATION Amazon Web Services