SARA QARAB

Software Engineer

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EXPERIENCE

Software Development Engineer in Test - II
S&P Global Market Intelligence

📅 July 2022 - Ongoing 📍 Virtual

- Development and maintenance of automation code-base. (above 90% test coverage)
- API testing with Postman and CAFe (in-house automation framework)
- Debug the failure of automated test cases.
- Led Java to Python pytest migration, adapting logic and creating custom functions.
- Identify and prioritize testing needs, collaborating with devs and PMs.
- Actively analyzed test results, flagging crucial issues for stakeholders.
- Mentored and trained junior team members in software testing methodologies, automation, and business understanding.

Software Engineer - Consultant
+Vision

📅 September 2021 - July 2022 📍 Islamabad

- Planning, assisting, and overseeing E-Commerce projects from gathering requirements through to completion.
- Obtaining and evaluating customer feedback for project improvements.
- Managing e-commerce websites (WordPress)
- Provide information on the latest IT advancement and ideas to the team for our prospective clients.

Software Engineer
Cognitive Healthcare International (Pvt.) Ltd.

📅 September 2020 –June 2022 📍 Islamabad, NUST H12

- Worked on implementing APIs in Tornado (python).
- Containerized Applications via Docker.
- Automation via Python.
- On-boarded and mentored teams of junior software engineers on the company codebase and processes.
- Worked on developing components for an inventory management system in Angular.
- Worked closely with the product owner to re-configure and re-develop the report generation process throughout the products saving manual labor hours.
- Documented best practices and training material for in-house libraries and codebase of the organization.
- Developed a web-based chatbot allowing users to input voice commands as well thereby reducing manual efforts.

Machine Learning Engineer (Internship)
CodeGini (Pvt.) Ltd.

📅 Feb 2019 - Apr 2020 📍 Islamabad

- **GUI Automation**: web app automating GUI tasks via hand sketch and voice command recognition for reducing manual efforts by 40%.
- **Database design automation (Research and POC)**: Aided in creating a database design automation app, boosting efficiency by 25%.
- **Dialogflow integration in web apps:** Integrated Dialogflow into web apps with custom webhooks, enhancing user interaction by 40%
- Studied Deep-learning (CNN and NLP), Database design (MySQL), HTML, Angular, CSS

SKILLS

Python · Test Automation · Postman · Azure Devops · Agile · Selenium · MySQL · Docker · Linux · Python-reportlab · Python-Flask · Python-Tornado · SQLAlchemy ORM

CERTIFICATIONS

- Google Data Analytics:Foundations: Data, Data Everywhere
- Google Data Analytics: Ask Questions to Make Data-Driven Decisions
- Hackerrank : Python (Basic)

EDUCATION

Post Graduate Diploma - Data Science.
NED University of Engineering and Technology

📅 2024 - Ongoing 📍 Karachi

Bachelor of Electronic Engineering (BEE)
International Islamic University, Islamabad

📅 2015 - 2019 📍 Islamabad

- **FYP: Digital Sketch Recognition for GUI Automation with Virtual Assistant**
- **Research paper: Machine learning techniques to detect cloud-based botnets**

F.Sc Pre-Engineering
Army Public School and College

📅 2012 - 2014 📍 Westridge 3, Rawalpindi

AWARDS

🏆 **1st Prize HITEC University Robotics Competition 2018**

🏆 **3rd Prize International Islamic University MATLAB Programming Competition 2017**