Rizwan Khan

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WORK EXPERIENCE

IPKeys Power Partners – Software Engineer   June 2021 – Present
- Developed analytics platform, visualization tools, internal tooling and set up custom API's and access end points to access and stream real-time data
- Set up a robust backend structure to support API's using Django and interactive frontend using React, for the analytics platform, to stream and manage real-time data
- Maintained functionality and fixed bugs for IPKey's management platform. Development was ensured on Testing and Staging builds before being pushed to Production
- Developed newer builds and deployed various services and processes on Linux using Docker.
- Developed and deployed various solutions, e.g setting up docker-compose files for services, system logs, database connectivity to collect data using connected end points
- Developed bash scripts to automate deployment process for services on Linux
- Set up and monitored stable version builds and weekly test Jobs deployed on CI/CD's multi branch pipeline process using Jenkins
- Tools used on day-to-day basis for development and maintenance included but not limited to Python(Django rest framework), React, Bash, various databases(Postgres and Influxdb) and containerization tools

Sunbird Software – Software Engineer   September 2019 – August 2020
- Developed functionality for data platform while maintaining and ensuring stability of different active platform builds
- Developed newer automated programs and fixes using Java, Python(Django), and various open-source APIs for Jenkins integration to ease continuous testing processes, deployed, containerized and created CI/CD using Jenkins to automate case production for various versions of product builds and data platform
- Developed and optimized functional in-house testing tools and solutions, new robust programming tasks, and scripts to execute automation functionality for newer build versions for the flagship product

TRC Companies Inc. – Software Engineering Intern   May 2018 – August 2018
- Developed and updated process flows, test and product databases implemented for MS CRM Dynamics by using SQL queries to input required data in the system records using JavaScript, and SQL
- Built a scalable solution for monitoring and processing data in system that helped company save time by 40 percent by tracking files and logging time

RELEVANT SKILLS & EXPERIENCE

Languages: Python, Java, JavaScript, C

Technologies: Django, Docker, Git, InfluxDB, Jenkins, Linux, Node.js, Pytorch, Pandas, Postgres, React

Relevant Academic & Personal Projects:
- Programmed and deployed projects using AWS, Springboot, node.js, XML, MySQL, NoSql, AWS DynamoDB and S3, JavaFX, Android's Gradle, Apache Tomcat, MaterialUI, Selenium, REST API's, Pytorch. More Programming Projects are present on Github
- Experience writing Machine Learning modules, algorithms, neural networks and applying algorithms to data

EDUCATION

Rutgers University   New Brunswick, NJ
Bachelor of Science – Computer Science   September 2014 – January 2019
  Concentration: Software Engineering
Master of Science – Computer Science

PROJECTS

Navigation - www.github.com/rizhkh/mazesearch
- Developed an artificially powered agent that can navigate a maze using autonomous factors. The self-navigating agent observes its surroundings in the maze, learns from its movements and utilizes minimal human input to solve the maze.

Minesweeper – AI agent - www.github.com/rizhkh/mswp
- Developed an autonomous AI agent capable of solving a game of Minesweeper using inference rules and constraints without using any human input for help. Designed a functional Minesweeper game for the AI agent to operate on.

Map Search - www.github.com/rizhkh/MapSearch
- Map searching program to find an optimal route between two points on a given map

Work Authorization: U.S Citizen (No sponsorship required)