Rizwan Khan

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WORK EXPERIENCE

IPKeys Power Partners – Software Engineer   June 2021 – December 2022
- Developed an analytics platform, core functionality to support and handle data metrics, visualization tools, internal tooling and set up custom API's to access and stream real-time data
- Set up a robust backend structure to support API's using Django (Django REST framework) and interactive frontend using React to manage, stream, visualize and log real-time data metrics for the analytics platform
- Development was ensured on Testing and Staging environments and 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 and installation processes for various services on Linux operating systems
- Set up and monitored stable version builds and weekly test Jobs deployed on CI/CD's pipeline process using Jenkins
- Supported other development teams and projects by maintaining functionality and bug fixes for IPKey's management platform
- Tools used on day-to-day basis for development and maintenance included but not limited to Python(Django rest framework), JavaScript, React, Bash, Shell, 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 Springboot, node.js, MySQL, NoSql, JavaFX, Shell, Apache Tomcat, Spark, PySpark, MaterialUI, Selenium, REST API's, Pytorch and Scala (academic). 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)