Rizwan Khan

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WORK EXPERIENCE

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 using Java, Python, 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
- Developed solutions using JavaScript and Python specifically for integrated tools to execute custom test and production cases on concurrency, load performance and virtually simulated user traffic for performance issues on the flagship product
- Scripts developed in testing environment were executed and analyzed for service API setup for in-house servers and cloud
- Updated procedures and process flows using JavaScript and Python to analyze request and response times for the generated user load to gather performance data for Sunbird's product platform

TRC Companies Inc. – Software Engineering Intern   May 2018 – August 2018
- 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
- 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, Node.js, SQL and CRM

EDUCATION

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

Master of Science – Computer Science   September 2020 – December 2022

PROJECTS

Maze 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

Image Processing - www.github.com/rizhkh/Classifier
- Developed a program to determine content of an image by utilizing Machine learning modules and by implementing a Classifying algorithm to help learn about data

RELEVANT SKILLS & EXPERIENCE

Languages: Python, Java, C/C++

Tools & Frameworks: AWS, EC2 instances & RDS, Git, Jenkins, Node.js, Robot, Pytorch, Pandas, scikit-learn, Jupyter

Relevant Academic & Personal Projects:
- Experience writing Machine Learning helper modules, algorithms, neural networks and applying algorithms to data

- Programmed and deployed projects using Springboot, node.js, XML, SQL, Data Network concepts (using TCP and UDP to write a bit torrent client using C and Python), JavaFX, Android's Gradle, Apache Tomcat, Selenium. More Programming Projects are present on Github

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