

# RizwanKhan

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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 before being deployed to a Production environment
- 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

Bachelor of Science – Computer Science

**Concentration: Software Engineering**

Master of Science – Computer Science

New Brunswick, NJ

September 2014 – January 2019

## PROJECTS

### Navigation - [www.github.com/rizhkh/mazesearch](https://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](https://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](https://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)