

# Rizwan Khan

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## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, C

**Web Frameworks:** Django, SpringBoot, Flask, React

**Version Control:** Git, Github, NPM

**Database:** PostgreSQL, MySQL, InfluxDB, MongoDB

**Web, Server & Containerization:** AWS, Node.js, Docker

**CI/CD:** Jenkins

**Other Relevant Technologies used:** Apache Tomcat, Grafana, JavaFX, Material UI, Nexus, NoSql, PySpark, Pytorch, Prometheus, Robot, Shell, Spark, Selenium, and Scala

## WORK EXPERIENCE

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### IPKeys Cyber & Power Partners (acquired by Parsons) – Software Engineer

June 2021 – December 2022

- Focusing on development operations and procedures, and primarily working with Python, Django, JavaScript, React, Bash, Docker, various databases(Postgres and InfluxDb) in a Linux environment
- Developed a Django and React-based analytics platform with real-time data visualization, streaming, logging, and an interactive frontend. Network engineers used the platform to monitor and analyze network activity
- Developed new internal tooling to support functionality and infrastructure resulting in a 60% reduction in processing times
- Developed interactive visualization tools to improve user experience yielding increased user engagement and usage by 40%
- Set up new API's to provide important and updated logs and data metrics to clients uploaded on weekly basis
- Ensured development on Testing and Staging environments prior to deployment to Production
- Regularly updated containerized deployments on AWS, including setting up new builds, docker-compose files for services, system logs, and database connectivity for data collection using connected endpoints
- Developed bash scripts to automate, configure and containerize deployment and installation processes resulting in an 80% reduction in deployment times
- 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

### 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

## EDUCATION

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### Rutgers University

Bachelor of Science – Computer Science

Master of Science – Computer Science

New Brunswick, NJ

September 2014 – January 2019

## PROJECTS

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

- Self-navigating artificially powered agent that can navigate a maze using autonomous factors, observing its surroundings in the maze, learning from its movements and utilizing 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.

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