



# Shaheer A. Khan



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## Education

Wilfrid Laurier University | Waterloo, Ontario  
Bachelor of Science in Computer Science

September 2019 – 2024

## Skills

**Languages:** Python, YAML, Kubernetes, Docker, JavaScript, C, C++, SQL, HTML, CSS, Java, Groovy

**Certifications:** Az-900

**Frameworks and Libraries:** React, Redux, NumPy, Pandas, Scikit-learn, Node JS, Express JS.

**Software and OS:** GitHub, Visual Studios, Windows, Mac, Linux, Ansible, Jenkins, Azure, Grafana, GitLab

**Soft Skills:** Problem Solver, Fast Learner, Cooperative, Organized, Curious, Exploratory,

## Work Experience

CIBC | Cloud Engineering and Technology | Platform Automation

May 2023 – Present

### Automation Platform Engineer

- Designed **Ansible** playbooks to automate and setup VM builds through **vSphere** saving **2 hours** of manual labor for each VM and lowering complexity.
- Engineered an all-new system to modularize and schedule workflows in Ansible, streamlining complex workflows with automated retries, scheduled routing, and incident resolution mid execution. This increased project delivery time by **400%**, increased incident resolution time by **50%**, and is projected to save over **\$600,000** in operations cost overtime.
- Wrote custom **Python** scripts to connect Ansible to **SQL** databases and enabled SQL queries to **MYSQL** servers via Ansible.
- Created Ansible playbooks for post-build tasks on **Azure** VMs saving time and streamlining the build pipeline.
- Diagnosed and resolved issues with RedHat **OpenShift** pods/containers using **Kubernetes** in which there was a bug causing issues for some users.
- Utilized **GitHub Actions** to set a **CI/CD** pipeline automating version control and automating code promotion through the different environments saving days of operational time and cutting costs.
- Implemented visual **Grafana** dashboards for custom monitoring, optimizing server performance based on **Loki** and **Prometheus** logs.
- Setup **Alert Manager** with Grafana and created custom alerts to detect when servers were down, when users were having issues connecting, or when licenses and certifications were about to expire.

## Personal Projects

### Chess, Mate In 3 Finder

December 2022

- Inspired a group of 5 students to work on a chess **artificial intelligent bot** which takes any position of pieces on a chess board and finds all possible checkmates in 3 turns.
- Minimized the time that it took to find all the checkmates significantly by applying a bitboard system to store the board positions and calculate the possible moves by moving shifting bits lowering the time it takes to calculate all the possibilities by **1000% on average**.
- Implemented a custom version of **Breadth-First Search algorithm** to find all the possible checkmates.

### Small Business Administration

March 2023

- Engineered a **machine learning model** which helps the decision-making for anyone giving a loan to a startup business to determine if it will be successful.
- Trained on gigabytes of data received from the small business administration website, carefully processed, and tuned to have a **high accuracy of 97.5%** while maintaining a balance of variance and bias.

### Social Media App

February 2023

- Designed a **social media application** allowing users to create accounts, add friends, and post various forms of media. It also contains multiple widgets, basic-auth, navigation bar, and a media feed.
- Built using the **MERN stack**, managed package dependencies using Yarn/ NPM, built a **fully functional backend** using **Node and Express JS**, a database using **MongoDB**, and a frontend using **React with Redux** for state management.