

# Daanish Khan

 Daanish-Khan |  Daanish Khan |  dkhan045@uottawa.ca |  +1-905-999-8670

## WORK EXPERIENCE

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### Software Engineer - Cisco

January 2024 - Current

- Developed service in **Python** to lookup user org within Cisco and relate them to their GitHub PRs
- Helped create **Python** services to recommend specific tests to run based on functions changed in GitHub PRs
- Spearheaded migration of **ElasticSearch** database to **Postgres**, speeding up query times and increasing availability

### Backend Software Developer - BluWave-ai

May 2023 - August 2023

- Developed **Apache NiFi** components that reduced peak load on city grid by remotely controlling electric vehicle charging patterns, while emitting insights to measure power savings over time.
- Developed a micro service in **Spring Boot** to manage customer data as well as a **RESTful** API token refresh system, greatly reducing the frequency of manually logging into a software.
- Oversaw design and implementation of an EV charger optimization software in **Apache NiFi**, allowing for multiple EVs to charge while avoiding peak loads and saving electricity costs.

### Software Engineer - Solace

May 2022 - August 2022

- Successfully resolved over 50 backend and UX bugs, significantly enhancing the product's reliability and maintainability while ensuring a seamless user experience.
- Utilized **Terraform** & **Python** to develop upgrade/install/uninstall scripts for multiple **Kubernetes** applications on **AKS**, saving 2 hours of manual deployment time.

### Cloud Infrastructure Engineer - CENGN

September 2021 - December 2021

- Created and deployed a **Python** script to production that would automatically find missing devices in **NetBox** and create them in **Zabbix**, resulting in a 2-day time save compared to transferring them manually.

### R&D Software Developer - Lincoln Electric

January 2021 - April 2021

- Developed a **React Native** mobile picture-to-AutoCAD converter application using **OCR**, **Azure Cloud Computing** servers, and **Expo** libraries, allowing customers to streamline the machined parts prototyping process by 1 week.
- Integrated a custom image processing algorithm to the mobile application using **OpenCV**, which allowed for 40% better recognition of fabrication drawings compared to traditional shape detection algorithms.

## PROJECTS

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### Mikado Machine JS, React, Firebase, Zustand

[Link to Website](#)

Worked collaboratively to deliver a specialized graph-based task tracking software to a customer based in the US by utilizing Firebase, React, and JavaScript libraries.

### EzBook. JS, Python, React, MySQL, Node.JS, Express

[Link to Repo](#)

Created a hotel management system that allows for employees and customers to book, view, and manage hotels. Built using React and MySQL, backend was built in Express.

## SKILLS

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Languages	JavaScript, TypeScript, Python, Java, C, C++, SQL, VBA, HTML/CSS, Bash
Frameworks	React/React Native, Bootstrap, Spring Boot, Angular, jQuery, Node.JS, OpenCV, Expo
DevOps	Docker, Kubernetes, Azure DevOps, AKS, AWS, GCC, Jenkins, Apache NiFi

## EDUCATION

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### BASc Software Engineering - University of Ottawa

2019 - Dec 2023