

Raghav Kharbanda

Candidate for B.A.Sc. in Nanotechnology Engineering
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Summary

- **Interdisciplinary** experience in applying programming to research, data analysis and **material science**
- Self-taught knowledge of data structures, algorithms, time complexities developed through independent and work projects
- Understanding of many **machine learning** algorithms (eg. back-propagation, adam) and data science concepts

Experience

DevOps Automation Engineer

Jan 2021 - Present

Sunlife Canada

- Automated testing and data validation with CI/CD pipelines using Service-Now and **Jenkins**
- Working on visualization of data metrics to extract meaningful insights using Grafana and Python
- Maintaining and validating docker containers running on different Linux servers
- Working in a fast-paced **agile** environment on continuous integration and continuous development of applications

DevOps Engineer

Sep 2019 - Apr 2020

CGI Group Inc.

- Developed **full-stack** internal web applications in AngularJS and deployed them on cloud using Docker and **Kubernetes**
- Reviewed pipelines and maintained code base for better efficiency and smooth running of development environments with Jenkins
- Implemented software bots in **Python** to automate DevOps workflows that reduced team workload
- Used API endpoints from three different Atlassian applications to create a singular internal web application with combined functionalities

Software Developer and Tester

Jan 2019 - Apr 2019

Zayo Canada

- Developed internal web apps in **Visual C#** and ASP.NET's MVC framework that expedited user management routines thereby saving the team time and resources
- Wrote Python scripts to parse invoice customer data into **SQL** databases
- Automated testing for REST and SOAP API endpoints for existing Angular applications using Python

Full Stack Developer Intern

Jun 2018 - Jul 2018

Uprise.ai

- Designed multiple landing pages for the company using JavaScript and Google Cloud
- Built a web app designed to create a skill-sharing network using Django

Technical Skills

Programming and Scripting

- Python
- MATLAB
- Swift and Xcode
- C++
- Linux / Unix

Web Development

- Flask / Django
- ASP.NET / Visual C#
- Angular.js
- MySQL
- Azure

DevOps Tools

- Jenkins
- Grafana
- Docker / Kubernetes
- Ansible
- Jira / Confluence Management

Education

B.A.Sc. Nanotechnology Engineering
University of Waterloo - 2022
Canada

Projects

Intelligent User Authentication System

A Solution developed for Transcore Logistics

January 2020

- Created a solution for the company to prevent licence breach by its users
- Added intelligent environment detection to the system using TensorFlow in Python
- Added Face recognition technology using Azure Face API

Voice Sentiment Detector

University of Ottawa Hacks

February 2019

- Created a Python GUI app using Google cloud platform to help people with autism better grasp emotions
- Integrated machine learning and NLP into the app to detect sentiments in audio