

ROHAN AGARWAL

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Education

McGill University

Bachelor of Science in Computer Science with a Minor in Economics

Expected May 2023

Montreal, Canada

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SASS, Golang

Technologies/Frameworks: Linux, Git, GitHub, JUnit5, Mockito, MongoDB, Flask, BeautifulSoup4, React.js, Node.js, Pandas, Numpy, Express, Mongoose, Google Guice

Experience

Amazon Web Services (AWS)

Jun 2022 – September 2022

Software Development Engineer Intern on the Snowball Team

Vancouver, British Columbia

- Enhanced the integration testing pipeline for clustering software at the Snow Large Scale Edge Computing team by developing a fault injection library.
- Programmed fault injections which attack different systemd services and simulate network partitions between nodes.
- Automated the process of simulating failures using Java and Google Guice. Implemented retry logic using Coral.
- Worked with linux tools such as iptables and systemctl to mock distributed system failures.
- Extensive unit testing with Junit5 and mocked SSH requests using Mockito 3.
- Researched and created prototypes using the AWS Fault Injection Simulator.

Shopify

Jan 2022 – Apr 2022

Backend Infrastructure Security Intern

Montreal, Quebec

- Secured and supported Shopify's production environments running Kubernetes (GKE) on Google Cloud Platform using Golang and Terraform
- Developed two new auditors using GCP's recommender API to help facilitate efficient removal of over 1500+ unattended projects and detect 10+ excessive IAM project permissions on average.
- Added a new feature to a Kubernetes service to deploy cluster and project-specific network policies which helped strengthen our network security configuration
- Researched and initialised a new project to Terraform the Okta, furthering our goal of achieving iaC across our services

McGill University

September 2020 – December 2021

Teaching Assistant for COMP202 - Foundations of Programming

Montreal, Quebec

- Lead discussion and presentation groups of 40 undergraduate students.
- Graded 5 major programming assignments for style and convention for over 100 students.
- Held office hours twice a week in order to provide assistance to students wanting guidance in course material.

McGill School of Computer Science

September 2019 – May 2020

Part-Time Administrative Assistant

Montreal, Quebec

- Worked with 1000+ graduate student admission data on Microsoft Excel
- Answered and directed phone calls

Projects

Zoom Chat Assistant Bot | Python, Selenium, MongoDB, Flask, HTML/CSS, React.js

June 2021

- Developed an automatic bot using Python and Selenium to assist educators with cluttered zoom chats. It automatically opens up a in-browser instance of zoom which listens for specific commands in the chat room.
- Used React.js and HTML to create a front end to help create new commands and add additional information

Formula-1 Statistics Web App | React.js, HTML/CSS, Material UI

May 2021

- Developed a web application using React.js and HTML/CSS to help provide formula 1 statistics for 20 users.
- The frontend was made using React.js and Google's MaterialUI.
- Data was provided and parsed in a JSON format using a public api from ergast.com

Personal Url Shortener | React.js, Node.js, MongoDB, HTML/CSS

June 2021

- Created a tinyurl replica using React and MongoDB
- A frontend using React.js and Material UI
- Stored data using MongoDB and developed a REST api using Flask to communicate with the database.
- Worked with React-Router and Browser in order to redirect to the appropriate websites