KARAN SAHNI

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EXPERIENCE

BlackBerry Limited

May - August 2021

Developer Student

Tools used: Python (Flask), Javascript, HTML, CSS, C#, .NET, MySQL, Git (Gitlab)

- Full-stack development (Python Back-end) of an FAQ web application which used NLP and database of question/answer information to **cut team's monthly workload by 25**%.
- Improved existing monolithic design to a more scalable architecture for future deployment as a microservice.

 Optimized NLP searching algorithms for a speedup of over 180%.

CIBC Capital Markets

January - December 2020

 $Production\ Application\ Analyst\ Co-op$

Tools used: Python, Java, Bash, MySQL, MapR, Grafana, Mercurial (Version Control)

- Reduced Production log errors by 70% through lead development of an error reporting program suite running in production with 99% up-time.
- Automated tasks with scripts to increase deployment efficiency and reduce manual procedures by 50%. Developed solutions for back-end users with data analytics, server health checks, and production issues.

PROJECTS AND VOLUNTEERING

CarSearch Web API — Vehicle Information API

October 2019 - Present

Python, SQLite, Flask-Restful, Heroku

• Implemented a free RESTful API from aggregated data from previous project, provides detailed information for cars produced between 1975-2019 in JSON output. Deployed on Heroku making it publicly accessible.

CarSearch — Full Stack Application

February - May 2019

Java, React Native, MySQL, Python, Scrum

- Google Vision API used to identify cars from pictures. Large database provided key car details for that vehicle such as Recall Info, Safety Rating and Fuel Economy.
- Mobile app Front-end in React, Back-end in Java, data in MySQL, and Web API scraping with Python scripts.

McMaster Engineers Without Borders — Engineering Conference

October 2017 - March 2018

Executive

• Created/maintained the website for the conference and networked with experts in various engineering principles.

TECHNICAL STRENGTHS

Programming Languages

Python, Java, C/C++, JavaScript, PHP, SQL, HTML, CSS, C# (.NET), Dart, Haskell

Tools & Frameworks

React JS, Flutter, Git, Mercurial, Bash/Unix Shell Scripting, Amazon AWS S3, Grafana, OpenGL, Linux, LaTex

EDUCATION

Honours Computer Science — Bachelor of Applied Science

September 2017 - April 2022

McMaster University, Hamilton, Ontario

Relevant Coursework: Data Structures and Algorithms, Object Oriented Design (UML Diagrams), Software Development Life Cycle (SDLC, SCRUM) and Software Requirements Engineering / Documentation, Relational Databases Schema Design, Software Testing, Functional Programming, MVC Design