

KARAN SAHNI

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Source Code @ Github.com/sahnik1

EXPERIENCE

Canadian Imperial Bank of Commerce (CIBC)

January 2020 - December 2020

Production Application Analyst Co-op

- Reduced Production incidents by 70% through lead development of an error reporting program suite.
- Automated tasks by developing scripts to increase deployment efficiency reducing manual procedures by 50%.
- Developed scripting solutions for back-end users including data analytics, server health checks, and other production issues.
- Technologies used in development: Python, Java, Bash, MySQL, MapR, Grafana, Mercurial (Version Control)

McMaster Engineers Without Borders'

— **Global Engineering Conference**

October 2017 - March 2018

Executive

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

PROJECTS

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.

Clima — Lightweight Weather WebApp

October 2019

ReactJS, JavaScript, Html, CSS

- Implemented a lightweight weather application using React with a REST API.
- Application executes API calls to obtain weather data and presents it on a front-end built from scratch.

CarSearch — Full Stack Application

February - May 2019

Java, React Native, MySQL, Python, Scrum

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

TECHNICAL STRENGTHS

Programming Languages

Java, C/C++, JavaScript, HTML, CSS, SQL, Python, Dart, Swift, Haskell, Assembly (x86, MIPS)

Tools & Frameworks

React JS, Flutter, Git, Mercurial, Bash/Unix Shell Scripting, Grafana, OpenGL, Linux, LaTeX, Microsoft Office

EDUCATION

Honours Computer Science — Bachelor of Applied Science

September 2018 - May 2022

McMaster University, Hamilton, Ontario

Relevant Coursework:

Data Structures and Algorithms, Object Oriented Design (Python, C++, Java, UML Diagrams), Software Development Life Cycle (SDLC and Scrum) and Requirements Documentation, Relational Databases Schema Design, Functional Programming, MVC Design