Jaskaran Singh

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Education

Bachelor of Computing Science (3 co-op terms completed) **Sept 2012- Dec 2016**

Simon Fraser University, Burnaby, British Columbia

- **Relevant Course Work** Operating Systems, Data Structure, Software Engineering, Database Systems, and Algorithm Design

Experience

Carl Data Solutions -Software Developer **Jun 2017- Present**

Technologies Using: **ASP.Net, C#, React, SQL and Python**

- Developed a console application to de-spike time series data from *The Flow Works Advanced Calculation Engine ("FACE")* which save countless hours of manual data manipulation
- Helped improving *Infiniti Machine Learning Engine* by adding new features and fixing bugs

International Research Centre (ICRC)- Software Developer **May 2016- Mar 2017**

Technologies Used: **Visual Basic, C#, JavaScript, MySQL, D3.js, and Sphinx**

- Helped ICRC to develop the desktop application *"https://thedarkcrawler.com"* which is used to examine Tor Through Social Network Analysis and Dark Web to Find Illicit and Criminal content
- Designed and implement a web component from scratch using Google Maps to replace Subrim.net (advanced 3rd party Google Maps control for VB.NET)

Westport Fuel Systems- Software Developer **Aug 2015- Apr 2016**

Technologies Used: **ASP.Net, C#, JavaScript and SQL**

- Worked on Vehicle design failure app which is used by 200+ engineers across 5 countries.
- Assisted in optimizing Westport's Material database system

Skills

Languages: Python, JavaScript (React), C#, HTML, and CSS

Database Technologies: MySQL, MongoDB and PostgreSQL

Operating System: Windows and Linux (Ubuntu)

Frameworks: Flask, Django and ASP.Net

Other Tools and Technologies: Docker, AWS, Git, Serverless, and Webpack

Personal Projects

Smart Insole Analysis- Build with: C3.js, NodeJS, Html, Papaparse and CSS **Aug 2018**

- Web application project which displays data collected from shoe insole (through Arduino) on the screen to show where user's foot put more pressure while walking.

Email Search Application Build with: Django, Python, and Bootstrap **May 2017**

- A simple web-app to search the emails stored in a database from json files using sender id, recipient id or between specified to/from dates.