

TARANVEER VIRK


SOFTWARE ENGINEER

ABOUT ME

Software Engineer with a passion for solving challenging problems through innovative solutions

EDUCATION

McMaster University **B. Eng. Mgmt, Software**


 Apr 2017

Five-year program combining engineering with business

SELF STUDY

Udacity

Deep Learning Nanodegree

 June 2018

Neural Networks and AI

SKILLS

PROGRAMMING

Node.js TypeScript

Java Python

C/C++ Bash

SQL & NoSQL Databases

WEB DEVELOPMENT

HTML5 CSS3

PHP REST

JavaScript (*AngularJS, Angular-Material, Bootstrap, EJS*)

PERSONAL PROJECTS

WWW.DROIDSMS.COM


- Pioneered a solution to send SMS from an Android App via Web Interface / REST API
- Saved over \$300 per month for MacSMS compared to Twilio

WWW.MACSMS.ME

- Created an innovative solution to provide real-time transit and weather information for City of Hamilton via SMS
- Used by 1500+ users daily

CONTACT ME

 taranveer@virk.cc

 1-289-937-2969

 www.virk.cc

 virkt25

 virkt25


 virk.cc/blog

WORK EXPERIENCE

IBM Cloud


 Markham, ON

Software Developer


June 2017 – Present 

- Developed and maintained LoopBack and associated components (an open source Node.js API framework by StrongLoop)
- Engaged and collaborated with community users by answering questions, reviewing code, writing documentation, blog posts, and tutorials
- Focused on the re-write of LoopBack 4 – worked on all aspects including core, CLI, repository, framework extensibility, project management, database connectors, developer experience, OpenAPI, JSON Schema, and more
- Assessed and remedied security vulnerabilities as the security focal
- Researched alternatives and developed proof of concepts to make informed decisions on key new features
- Incorporated IBM Watson Discovery to power the documentation search

IBM Security

 Markham, ON

Application Security Developer (Student on call)

Sep 2016 – May 2017 

- Built reusable UI components and a pattern library for IBM Application Security on Cloud

IBM Security (Extreme Blue)

 Markham, ON


Application Software Developer

May 2016 – Aug 2016 


IBM Extreme Blue is an elite internship program that combines world-class talent, technology and business innovation

- Designed, architected and developed an innovative prototype for Application Security Industry to automate processes
- Developed a cognitive platform to assess application risk and provide personalized advice using IBM Watson, Bluemix, Cloudant, and Apache SPARK
- Delivered IBM Executives a business plan to commercialize the prototype into a solution targeting \$2 billion market opportunity

IBM Commerce


 Markham, ON

Full-Stack Web Application Developer (Student on call)


Sep 2015 – Apr 2016 

- Architected and developed a tag based, searchable icon repository
- Implemented a responsive UI along with a scalable Node backend for IBM Drink, a system to cognitively recommends drinks for clients based on their personality
- Developed an animated analytics board to display live metrics and to engage customers for IBM Drink

IBM Analytics

 Markham, ON

Web Application Developer


May 2014 – Aug 2015 

- Built WCAG 2.0 AA accessible, pixel perfect front-end interfaces for IBM dashDB and IBM Data Server Manager
- Improved UX in both products by introducing responsive web elements
- Optimized site performance to reduce load time by over 2 seconds
- Created rapid prototypes and proof of concepts to get interactive user feedback

McMaster University

 Hamilton, ON

Teaching Assistant (Eng. Computation)

Sep 2012 – Apr 2017 

- Taught Python and explained fundamental computer programming concepts to engineering students while supervising weekly tutorials and lab sessions