

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
HTML5 / CSS3 / JS (Angular)
SQL & NoSQL Databases

DevOPS

Kubernetes Travis
LogDNA Sysdig
NGINX New Relic

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

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WORK EXPERIENCE

IBM Cognitive Solutions

Markham, ON

Staff Software Engineer

Oct 2018 – Present

- Architected multiple cloud native applications from the ground up using a microservice architecture delivering over 99.99% uptime
- Optimized database, backend and UI performance to improve response time 5x
- Designed a CI/CD pipeline to manage security, testing and automated deploys
- Managed a multi-tenant Kubernetes cluster and shared services for logging, monitoring, automated SSL certificate renewal, self-healing tools, etc.
- Delivered features and solutions end-to-end spanning the entire stack using the latest technology stack

IBM Cloud

Markham, ON

Open Source Software Engineer

June 2017 – Sep 2018

Developed and maintained LoopBack — A highly extensible Node.js and TypeScript framework for building REST APIs and microservices

- Engaged and collaborated with community users and maintainers by answering questions, reviewing code, writing documentation, blog posts, and tutorials
- Involved in all aspects of a rewrite and GA of LoopBack 4 — core, CLI, database connectors, extensibility, OpenAPI integration, developer experience, etc.
- Assessed and remedied security vulnerabilities as the project security focal
- Incorporated IBM Watson Discovery to power the documentation search site

IBM Security

Markham, ON

Application Security Engineer (Student on call)

Sep 2016 – May 2017

- Built a reusable UI component library for IBM Security Cloud products

IBM Security (Extreme Blue)

Markham, ON

Application Software Engineer

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 a \$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 to allow for easy creation, management and consumption of icons at IBM
- Implemented a responsive UI along with a scalable Node backend for IBM Drink — an AI system that recommended & ordered drinks based on personality
- Developed an animated analytics board to display live metrics and engage clients

IBM Analytics

Markham, ON

Web Application Developer

May 2014 – Aug 2015

- Built WCAG 2.0 AA accessible, pixel perfect front-end user 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