

# GURPREET SINGH

London, Ontario · gurpreet@mailfence.com · 519-317-0782 · gurpreetsingh.me

## EDUCATION

**University Of Western Ontario**  
Honors Specialization in Computer Science

London, Ontario  
Grad: May 2018

## EXPERIENCE

### IBM Canada

*Infosphere MDM Software Engineer*

Markham, Ontario  
May 2016 — August 2017

- Designed and implemented frameworks to assist with end to end regression tests, allowing for continuous build deployment, testing, post processing, reporting, and publishing through each release cycle.
- Lead a team of developers to create a microservice management architecture for the delivery platform and converted existing tools to microservices.
- Presented tutorials on how to use new technologies to the team. Held one on one sessions with developers and managers to explain how to use Git, Docker, etc, and how it could benefit their workflow.
- Worked extensively with DevOps tools like Docker, Travis, Jenkins and Git to develop and deploy tooling.

### Tutor Hero

*Chief Technology Officer*

Toronto, Ontario  
May 2015 — September 2015

- Created a Kijiji-like web app where tutors can market their services and students can meet verified safe tutors. This brokerage website was developed in Python using the Django framework.
- This role consisted of leading the development of the web-app, recruiting interns, and managing a small development team to meet tight deadlines.
- Tutor Hero grew to 1600 tutors across 17 cities in Canada in six months. [www.tutorhero.ca](http://www.tutorhero.ca)

### United Steelworkers (USW)

*Information Technology Intern*

Toronto, Ontario  
May 2015 — September 2015

- Developed websites for political representatives.
- Created java applications to automate office tasks.
- Presented weekly analytical reviews of online content.

### UWO Computer Science Tutoring

*Programming Tutor*

London, Ontario  
June 2013 — September 2014

- Tutoring university students in the subject of Computer Science while still in high school.
- Arranging sessions with students and answering challenging programming problems.
- Researched and implemented new advertising methods to gain more students.

## PROJECTS

### HackingCancer Java

Reverse engineered raw cancer research data (gene microdata) and manipulated it into a playable game. The player assists in the analysis of the data. Winner of Westerns Hackathon in 2015. Made in 36 hours.

### ARK IOT Blockchain, Javascript, Kotlin, Hardware

Opensource project that aims to connect IOT devices to the blockchain using on-chain data.

<https://github.com/ArkEcosystem>

### Cloud Drive C, Valgrind, Redis, TCP/UDP

Cloud drive networking implementation written in C. Functions like Dropbox.

<https://github.com/Guppster/Drive>

### Microservices-Core Rust, Go, Kotlin, C, Java

A central microservice management framework that enables microservice deployment, registration, querying and execution.

<https://github.com/Guppster/MicroservicesStack>

## SKILLS

Programming Languages: Java 8, C, C#, Python, Ruby, Lua, Go, Rust, Kotlin, Perl  
DevOps Tools: Git, Jenkins, Travis, Docker, Gradle, Maven, Bluemix