

GURPREET SINGH

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EDUCATION

University Of Western Ontario

Honors Specialization in Computer Science with a Minor in Software Engineering

London, Ontario

Grad: May 2018

EXPERIENCE

Ark Blockchain

Software Developer (Community)

Remote

June 2017 — Feb 2018

- Develop software and community libraries for the Ark Blockchain open-source organization.
- Created and maintain ark-java and ark-kotlin repositories which allow an easy interface to the blockchain from either language.
- Developed Cordova plugin for the Ledger hardware wallet allowing JS applications to interface with native Android and iOS hardware for Ledger authentication.
- Created an architecture to connect IoT devices to the blockchain using on-chain data storage with a custom designed protocol.
- 4-time winner of the monthly development bounty award.

IBM Canada

Infosphere MDM Software Engineer

Markham, Ontario & Remote

May 2016 — Aug 2017

- Designed and implemented frameworks to assist with end to end regression tests, allowing for continuous build deployment, and performance evaluation through each release cycle of MDM.
- Lead a team of developers to create a microservice management architecture for the delivery platform and converted existing tools to microservices.
- Pitched new technologies to the team. Held one on one sessions with developers and managers to explain how to use Git, Docker, etc.
- Worked extensively with DevOps tools like Docker, Travis, Jenkins and Git to develop and deploy tooling.

Tutor Hero

Chief Technology Officer

London, Ontario

Sept 2013 — Nov 2015

- Created a Kijiji-like web app where tutors can market their services and students can meet verified 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

United Steelworkers (USW)

Information Technology Intern

Toronto, Ontario

May 2015 — Sept 2015

- Developed websites for political representatives and Java applications to automate responsibilities
- Presented weekly analytical reviews of online content.

PROJECTS

Cloud Drive C, Valgrind, Redis, TCP/UDP

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

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

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

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

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

HackingCancer Java, Swing

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

Game design project using the power of crowdsourcing to assist cancer research. Winner of HackWestern

Faulty

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

Fault Localization software that captures faults within large codebases based on analysis of bug reports or issues.

SKILLS

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