

Will Pringle

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Education

University of Guelph

BACHELORS IN SOFTWARE ENGINEERING

GPA: 3.65/4.0

Guelph, Ontario

September 2018 – April 2023

Experience

Wave

SOFTWARE ENGINEER

Toronto, Canada

September 2021 – December 2021

- Implemented cached GraphQL queries for over 140 operations reducing network traffic by up to 93%
- Utilized Datadog, SumoLogic, and AWS Console to investigate the performance impact of changes made to Wave's API
- Improved company understanding of GraphQL technology through presentations on important libraries and tech
- Maintained Wave's Django and NodeJS API services

Kings Distributed Systems

SOFTWARE DEVELOPER

Kingston, Canada

January 2021 – August 2021

- Contributed to the Distributed Compute Protocol NodeJS microservices and MySQL database
- Implemented payment commissions, a feature that transfers a specified fraction of a payment to a separate account, allowing KingsDS to make revenue for every workload sent over their network
- Fixed critical race condition bugs in the network transport layer of the system improving security
- Re-branded a client facing frontend portal for a research study with over 100 participants using the Distributed Compute Protocol

Ontario Ministry of Finance

SOFTWARE DEVELOPER

Toronto, Canada

June 2020 – December 2020

- Automated data entry and modeling using Python reducing time for a critical task by 99%
- Wrote an internal Python and R package to help economists analyze tax data used to write policy that affects millions of Ontarians
- Developed scripts to parse and analyze Excel data into a usable format using libraries such as Pandas and Numpy

Skills

Programming Languages: JavaScript, C, Shell / Bash, Python, Kotlin, Java, SQL, R, Perl

Technologies: Node.js, Linux, Android Studio, GraphQL, AWS, Datadog, Express.js, Tensorflow

Projects

JADCC (Distributed Clang Compiler)

- UTILIZED THE DISTRIBUTED COMPUTE PROTOCOL TO DISTRIBUTE CLANG X86 COMPILATION OF C CODE

Webassembly, JavaScript, NodeJS

<https://github.com/wiwichips/jadcc>

ScanX

- LED A TEAM TO CREATE AN OPEN SOURCE SIMPLE BARCODE SCANNING AND INVENTORY MANAGEMENT SYSTEM
- IMPLEMENTED A FRONTEND SEARCH SYSTEM THAT QUERIES A DATABASE FOR ITEMS PREVIOUSLY SCANNED

Kotlin, Java, Android Studio, Python

<https://github.com/wiwichips/ScanX>

Awards and Extracurriculars

August
2020

(First Place) Distributed Summer Hackathon, Collaborated in a team of two under a 36 hour period to develop Gunktribute, a project that utilizes DCP's highly distributed supercomputer to classify images in a large photo gallery efficiently

Distributed
Compute Labs

January
2019

(Second Place) Amazon Day Datapath, Competed to learn Amazon's new query language Datapath to solve query related problems

Amazon

September
2018 -
Present

BCOMP Forum Student Organization - Founder, • Grew an online community of over 1300 Computer Science students to run events and collaborate

BCOMP

April 2021 -
Present

Hack The Job - Co-Founder, • Organized, marketed, and hosted two hackathons and conferences with over 180 participants <https://hackthejob.ca/>

Hack the Job