

Will Pringle

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Education

University of Guelph

BACHELORS IN SOFTWARE ENGINEERING

GPA: 3.65

Guelph, Ontario

Sep 2018 – April 2022

Experience

Kings Distributed Systems

SOFTWARE DEVELOPER

- NodeJS, MySQL, Linux, HTML, CSS
- 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
- Re-branded a client facing frontend portal for a research study with over 100 participants using the Distributed Compute Protocol.

Kingston, Canada

Jan 2020 – Present

Ontario Ministry of Finance

RESEARCH ANALYST & SOFTWARE DEVELOPER

- Python, R, Jupyter Notebook, SQL
- Automated data entry and modeling using Python reducing time 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

Toronto, Canada

June 2020 – December 2020

Skills

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

Technologies: Node.js, Linux / Unix, Android Studio, Linux Containers, Express.js, Tensorflow

Projects

ScanX

- LEAD 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>

Gunkstribute

- DEVELOPED AN IMAGE CLASSIFICATION PROGRAM USING TENSORFLOW TO UTILIZE A HIGHLY DISTRIBUTED SUPER-COMPUTER THAT GIVES PHOTOS IN A PHOTO GALLERY MORE DESCRIPTIVE NAMES EFFICIENTLY WITH PARALLELIZATION

Node.JS, JavaScript, Tensorflow

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

SQUISH

- LIGHTWEIGHT UNIX SHELL THAT SUPPORTS PIPING, REDIRECTION, VARIABLE GLOBBING, CHANGING DIRECTORIES AND EXITING

C, Makefile

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

Awards and Extracurriculars

August 2020	(First Place) Distributed Summer Hackathon , Collaborated in a team of two under a 36 hour period to develop Gunkstribute, a project that utilizes DCP's highly distributed supercomputer to classify images in a large photo gallery efficiently	Distributed Compute Labs
Jan 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 1100 Computer Science students to run events and collaborate • Organized and ran a sponsored hackathon	BCOMP