Will Pringle

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Education

University of Guelph *Guelph, Ontario*
BACHELORS IN SOFTWARE ENGINEERING *Sep 2018 – April 2022*
GPA: 3.65

Experience

Kings Distributed Systems *Kingston, Canada*
SOFTWARE DEVELOPER *Jan 2020 – Present*
- 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.

Ontario Ministry of Finance *Toronto, Canada*
RESEARCH ANALYST & SOFTWARE DEVELOPER *June 2020 – December 2020*
- Python, R, Jupyter Notebook, SQL
- 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, Python, Kotlin, Java, Shell / Bash, SQL, R, Perl
Technologies: Node.js, Linux / Unix, Android Studio, Linux Containers, Express.js, Tensorflow

Projects

ScanX *Kotlin, Java, Android Studio, Python*
- 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 *https://github.com/wiwichips/ScanX*

Gunkstribute *Node.JS, JavaScript, Tensorflow*
- 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 PARALLELIZA-TION *https://github.com/wiwichips/gcb*

SQUISH *C, Makefile*
- LIGHTWEIGHT UNIX SHELL THAT SUPPORTS PIPING, REDIRECTION, VARIABLE GLOBBING, CHANGING DIRECTORIES AND EXITING *https://github.com/wiwichips/squish*

Awards and Extracurriculars

August 2020	**(First Place) Distribued 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 langugae Datapth 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*