Will Pringle

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Education

University of Guelph	*Guelph, Ontario*
Bachelors in Software Engineering	*September 2018 – April 2023*
GPA: 3.65/4.0	

Experience

Wave — *Toronto, Canada*
Software Engineer — *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 — *Kingston, Canada*
Software Developer — *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 — *Toronto, Canada*
Software Developer — *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) — *Webassembly, JavaScript, NodeJS*
- Utilized the Distributed Compute Protocol to distribute Clang x86 compilation of C code
- *https://github.com/wiwichips/jadcc*

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

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*
January 2019	**(Second Place) Amazon Day Datapath**, Competed to learn Amazon's new query languagae Datapth 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 two hackathons with over 120 participants https://hackthejob.ca/	*Hack the Job*