

# Will Pringle

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## EDUCATION

### University of Guelph

September 2018 – May 2023

*Bachelor of Computing, Software Engineering, Area of Application in Business Economics*

*Guelph, ON*

- 3.7 GPA (86% cumulative average)
- VP Event Planner for the **Society of Computing and Information Science**
- Run and organize the **Guelph Programming Competition** for competitive programming

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, Rust, C, Shell/Bash, Golang, Java, Kotlin, SQL, R, GraphQL, WebAssembly

**Frameworks and Libraries:** Node.js, Express.js, React, Apollo, Django, Tensorflow, pandas, NumPy

**Developer Tools:** Git, Docker, AWS, Android Studio, Datadog, Kubernetes

## WORK EXPERIENCE

### Software Engineer Intern (Backend)

May 2022 – August 2022

*Arctic Wolf*

*Waterloo, ON*

- Implemented a feature in **Go** that removes data across a distributed system by sending **Kafka** and **RabbitMQ** messages in order to automate the deactivation of security vulnerability scanners
- Wrote a **Python** script to automate the process of deactivating lists of scanners, speeding up the originally manual process substantially

### Software Engineer Intern (API)

September 2021 – December 2021

*Wave Financial Inc.*

*Toronto, ON*

- Implemented API request caching using **Automatic Persisted Queries** for over 140+ **GraphQL** query **HTTP** requests reducing inbound network traffic by up to 93% for queries requested millions of times a month
- Helped increase **GraphQL** literacy by contributing to an internal training project and presenting at demos

### Software Developer Intern (Fullstack)

January 2021 – August 2021

*Distributive (Formerly known as Kings Distributed Systems)*

*Kingston, ON*

- Implemented a scraping feature for payments allowing a third party to make a commission off of paid compute
- Fixed critical race condition bugs in the transport layer affecting session ID generation, improving network security
- Onboarded 10 new developers to the team; introducing them to the codebase and assisting with setting up development environments

### Research Analyst Intern

June 2020 – December 2020

*Ontario Ministry of Finance*

*Toronto, ON*

- Automated data entry and modelling using **Python**, reducing time for a critical monthly task by 99%
- Wrote a package in **Python** and **R** that helps economists analyze data that is used to write Ontario's tax policies

## PROJECTS

### JADCC

[github.com/wiwichips/jadcc](https://github.com/wiwichips/jadcc)

- Utilized **DCP** to write a distributed Clang compiler using **WebAssembly**, **Javascript**, and **Node.js**

### ScanX

[github.com/wiwichips/ScanX](https://github.com/wiwichips/ScanX)

- Built an Android app in **Kotlin** allowing for barcode scanning and inventory management

## EXTRACURRICULARS & AWARDS

### Hack the Job

April 2021 – Present

- Co-founded a hackathon organization that has helped over 200 participants from 10+ universities learn industry tools and advance their careers. This involves hosting speakers and running hackathons
- Facilitated events, judged hackathon submissions, liaised with corporate sponsors and led marketing

### BCOMP

September 2018 – Present

- Founder and president of an online community used by 1700+ Bachelor of Computing students at the University of Guelph to share class notes and collaborate with each other within the rules of the university

### Distributed Summer Hackathon: First Place Award

August 2020

- Developed a program that utilizes a parallel computing API to classify images in a photo album with **Tensorflow**