

# Will Pringle

[willkantorpringle@gmail.com](mailto:willkantorpringle@gmail.com) | [linkedin.com/in/will-pringle](https://www.linkedin.com/in/will-pringle) | <https://github.com/wiwichips> | +1(519)994-0408

## 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 Developer

May 2023 – Present

*Distributive (Formerly known as Kings Distributed Systems)*

*Kingston, ON*

- Developed a versatile **REST API** integrated with **OAuth2** using **NodeJS** and **Express**, broadening DCP's accessibility across various programming languages and enhancing platform usability. [Source code on GitHub](#)
- Developed DCP Worktimes which gives DCP the capability for code to execute in a different runtimes and environments. (*Launch article coming soon...*)
  - \* Made an **NPM package** in **TypeScript** as an open API for third party developers to use to create their own custom Worktimes. (*Not published yet, coming soon...*)
  - \* Added the "Pyodide Worktime" allowing users to easily deploy Python workloads executed in WASM runtimes
  - \* Currently developing a MicroVM Worktime based on Firecracker
- Implemented OAuth2-based SDK authorization for enhanced security and convenience for SDK users
- Created a Kubernetes manifest.yaml generator backend, enabling users to effortlessly configure and deploy compute clusters, markedly improving setup efficiency. [Try it here](#)
- Part time Developer Advocate for **PythonMonkey**. Produced video content, wrote articles and shared the project in developer communities **resulting in a growth of 0 to 300 stars on GitHub within one month** (currently 500). Wrote a [Launch Article](#) for PythonMonkey featured in JavaScript Weekly, Node Weekly, and other popular newsletters which revived 2.7K Views, 1.4K Reads and 157 claps

### 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

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### **ImgProBox**([Website](#))

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

- Image processing toolbox in the browser using **Rust** compiled to **WebAssembly** for the core logic and **React**
- Able to efficiently processes a live webcam feed or allow for images to be uploaded

### **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

### **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, liasoned with corporate sponors 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**