

# Will Pringle

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## TECHNICAL SKILLS

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

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

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

## WORK EXPERIENCE

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### Software Developer

May 2023 – Present

*Distributive (Formerly known as Kings Distributed Systems)*

Kingston, ON

- Designed and built a WebHook server in **Go/Golang** for accessing AI inference predictions from Diana
- Developed DCP Worktimes enabling distributed workloads to execute in a variety of runtime environments
- Created the **Pyodide** Worktime, enabling distributed **Python** to execute in a **WASM** runtime
- Designed and implemented the **Python** SDK for DCP ([Source code on GitHub](#)) (`$ pip install dcp`)
- 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](#))
- Created a Kubernetes `manifest.yaml` generator enabling system administrators to configure and deploy DCP compute clusters efficiently. [Try it here](#)
- Promoted an open source project called PythonMonkey resulting in 300+ stars on GitHub in 1 month (800+ now). Created [videos](#), wrote [articles](#), and discussed the project with journalists (featured in [The New Stack](#), Node Weekly and JavaScript Weekly).

### 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, enabling a third party to earn commissions on paid compute
- Fixed race condition bugs in an in-house network protocol affecting session ID generation, improving 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

## EDUCATION

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### 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**
- Ran and organized the **Guelph Programming Competition** for competitive programming

## 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
- Try it out! [wiwichips.github.io/imgprobox/](https://wiwichips.github.io/imgprobox/)