

Will Pringle

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TECHNICAL SKILLS

Languages: JavaScript, Python, Rust, C, Go/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

Lead API & Toolchains Developer

June 2024 – Present

Distributive

Kingston, ON

- Designed and built a Webhook server in **Golang** for accessing **AI model inferences** deployed to [Diana](#)
- Developed an API which enables users to specify execution environments in distributed compute nodes
- Created a runtime for distributed **Python** execution on **DCP** using **WebAssembly** and **Pyodide**
- Designed and implemented the **Python** SDK for DCP ([Source code on GitHub](#)) (`$ pip install dcp`)

Software Developer

May 2023 – June 2024

Distributive

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](#))
- 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 deactivating 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
- Re-branded a frontend dashboard used for a research study with 1000+ participants using CSS

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

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

ImgProBox(Try it out: wiwichips.github.io/imgprobox/)

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