Will Pringle

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TECHNICAL SKILLS

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

Lead API & Toolchains Developer
June 2024 – Present
Distributive — *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`)

Software Developer
May 2022 – June 2022
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