Will Pringle

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TECHNICAL SKILLS

Languages: JavaScript, Python, Rust, C, Go / Golang, Bash, Java, SQL, GraphQL
Frameworks and Libraries: Node.js, Express.js, React, Apollo, Django, Tensorflow, Pandas, NumPy
Developer Tools: Git, GitHub Actions, Docker, AWS, Datadog, Kubernetes, MySQL, OpenAPI

WORK EXPERIENCE

Lead API & Toolchains Developer
Distributive
June 2024 – Present
Kingston, ON

- Designed and built a Webhook server in **Go** for accessing **AI model inferences** deployed to DIANA
- Created a runtime for distributed **Python** execution on DCP built on **WebAssembly** and **Pyodide**
- Designed and implemented a **Python** SDK for distributed computing via DCP (Source code on GitHub)
- Planned Quarterly OKRs, mentored developers, and scoped MVPs for API and Toolchain products for DCP

Software Developer
Distributive
May 2023 – June 2024
Kingston, ON

- Developed a **REST API** for distributed computing integrated with **OAuth2.0** using **NodeJS** and **Express**
- Implemented OAuth2.0-based SDK authorization for enhanced security and convenience for SDK users
- Created a Kubernetes `manifest.yaml` generator to configure and deploy DCP compute clusters efficiently
- Drove the success of PythonMonkey's launch, earning 300+ GitHub stars in the first month and 800+ stars to date
- Designed in **Figma** and implemented the pythonmonkey.io landing page using **HTML**, **JS** and **CSS**

Software Engineer Intern (Backend)
Arctic Wolf
May 2022 – August 2022
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)
Wave Financial Inc.
September 2021 – December 2021
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)
Distributive
January 2021 – August 2021
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
Ontario Ministry of Finance
June 2020 – December 2020
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
Bachelor of Computing, Computer Science, Area of Application in Business Economics
September 2018 – May 2023
Guelph, ON

- 3.7/4.0 GPA (86% cumulative average) - Graduated with Honours
- Founder and leader of the Guelph B.COMP Discord server, growing active membership from 0 to 2200+
- VP Event Planner for the Society of Computing and Information Science
- Ran and organized multiple Guelph Programming Competitions and a hackathon with over 200 participants

PROJECTS

ImgProBox (Try it out)
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