Will Pringle

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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

ImgProBox(Website)   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
- Utilized **DCP** to write a distributed Clang compiler using **WebAssembly**, **Javascript**, and **Node.js**

ScanX   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 – September 2023
- Founder and president of an online community used by 2000+ 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** across multiple computers

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