

TONY KWOK

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Education

University of Waterloo

Sept 2016 – June 2022

Bachelor of Computing and Financial Management

• **Courses:** OOP in C++, Compilers, Algorithms, Data Structures, User Interfaces, Artificial Intelligence

Skills

Languages: Python, Javascript, C++, SQL, R

Technologies: React.js, Node.js, MySQL, Pandas, Bash, Git, Docker, Svelte.js, GCP, MS Power Apps, MS Power BI, MS Power Automate

Professional Experience

Nuclear Promise X

Remote

Innovation Catalyst Intern – Modernization Team

Jan 2021 – Apr 2021

- Redesigned database schema to solve and prevent future data conflicts, **reducing development time when scaling by 10%**
- Built a data reporting app using Power BI and Power Automate, **eliminating data reporting time**
- Developed UI standards and component library in Power Apps to **increase app development efficiency by >20%**

360 Insights

Whitby, ON

Full Stack Developer Intern

Jan 2020 – Apr 2020

- Created API to test and display availability of internal services using Node.js, **reducing the debugging process by 10 mins for my team for future internal service errors**
- Developed reusable UI components using React.js for client sales portals, simplifying the code base

Quarter4

Guelph, ON

Data Specialist Intern

May 2019 – Aug, 2019

- Created a data pipeline for a prediction model by managing a database and data intake
 - Built a Python script that collects data through scraping websites and cleans the data using Pandas and MySQL, **allowing model prediction accuracy to rise >75%**
- Created a Markov chain to translate raw data into descriptive text, allowing the user to understand NBA metrics in our MVP

Marsh

Toronto, ON

Business Application Developer Intern – Quick Win Team

Aug 2018 – Dec 2018

- Pitched, designed, and developed a data reporting app in SQL, VBA, and MS Access
 - **Resulted in the automation of 1hr of daily reporting time to the sales department**, and the primary role of co-ops

Projects

Portfolio Website 

- Implemented parallax effects with Svelte.js with layers designed in Paint.net and hosted it on Google Cloud Platform
- Improved loading times through minifying code and reducing image weight

SoulDog  

- Platform to match owners with dogs via lifestyle preferences. Complete with account authentication, posts and comments. Hosted on Heroku.
- Designed UI, data schema, and auto-generated data using Knex.js
- **featured as top project for CS348: Intro to Database Management**

Wumpus World

- Implemented reinforcement learning techniques to show runtime differences

Interests

Middle Distance Running • Automation • Neural Networks • GPT-3 • Clidynamics