Thomas Kim

SOFTWARE DEVELOPER · MECHANICAL ENGINEER

Toronto · Mississauga · Waterloo

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Summary

Software developer with interests in both frontend and backend development, cryptography, and real-time systems. Highly adaptable and continuously learning person who can contribute effectively towards company needs. Seeking an internships where I can apply my skills in relevant fields.

Skills

Web Development: JavaScript, TypeScript, Sass/Scss, Next, React, Node (Express), Python (Flask, Django), SQL, NoSQL, AWS

Software Development: Python (Crypto.Cipher, pandas, openpyxl, Selenium), C, C++, Swift, Golang, React Native, Git, Linux

Areas of Focus: Web Development, Cryptography, Energy Industry, Financial Markets, Product Design, Entrepreneurship

Work Experience

Four Star Inc   *Kitchener, Ontario*
SOFTWARE DEVELOPER   *Mar. 2022 - Oct. 2022*

- Developed python scripts that automated repetitive excel based tasks such as parsing, formatting, and delivery route optimization.
- Designed RESTful backend server enabling excel files to be parsed and returned as a formatted file.
- Incorporated a MySQL database that updates customer information when requested using the most recent excel file.
- Developed a frontend using Next.js so that stakeholders can utilize automation scripts through a user interface.
- **Skills:** Next.js, Python (Flask, openpyxl), MySQL, Firebase, Heroku, REST

EnPowered Inc   *Toronto, Ontario*
DATA ANALYST   *May. 2022 - Aug. 2022*

- Utilized Python and C++ scripts to brute force and simulate fixed utility costs and prorated bill configurations, saving decryption efforts significantly.
- Transcribed and summarized convoluted utility tariff and rate documents for New York in Notion on company wiki.
- Developed an excel based calculator for utility supply charges for all seven transmission owners in New York which will be vital for market entry.
- **Skills:** Excel, Python, C++

Projects

Microservices Product Management System

PRODUCT MANAGEMENT ADMIN PORTAL AND CUSTOMER SIDE PRODUCT LISTING PAGE BUILT WITH MICROSERVICES.

- Separate customer and admin microservices with independent databases using MySQL, containerization through Docker.
- Django based product management API and Flask based customer facing product API.
- Microservices communication through CloudAMQP's RabbitMQ-as-a-service.
- **Skills:** Microservices, Docker, Django, Flask, RabbitMQ, MySQL, React.js, TypeScript

React 3D Model Viewer

A REACT COMPONENT TO VIEW A SINGLE 3D MODEL IN STL FORMAT USING THREE.JS.

- Created a React 3D model viewer component for files in STL format significantly improving on existing react.js model viewers using three.js.
- Implemented additional customizations such as custom point lights, directional lights, camera positioning, and camera motion.
- Deployed component as a package on NPM, where it can be found as "react-3d-model-component."
- **Skills:** React.js, Three.js, React Three Fiber, WebGL, NPM, Firebase, Github Actions

Hack the 6ix

HACKATHON BY HACK THE 6IX @ WEALTHSIMPLE HQ

- Built Warepair, a web app that allows contractors and clients to easily find each other through job listings displayed on a map.
- Designed the UI on Figma, built the frontend with React.js, configured databse on Heroku Postgres, and deployed both front and backend on Heroku.
- **Skills:** Figma, React.js, Flask, PostgreSQL, Heroku

Education

University of Waterloo   *Waterloo, Ontario*
HONOURS BACHELOR OF APPLIED SCIENCE - MECHANICAL ENGINEERING CO-OP   *Sep. 2020 - Aug. 2025*

- 3.7 GPA, President's Scholarship
- Mechanical Engineering 2025 Class Representative
- Member of University of Waterloo Outers Club