

# Thomas Kim

SOFTWARE DEVELOPER · MECHANICAL ENGINEER

Toronto · Waterloo · Mississauga

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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 internship where I can apply my skills in relevant fields.

## Skills

**Web Development:** REST, React.js, Sass, Node.js, Python (Flask), MySQL, PostgreSQL, MongoDB, AWS, Heroku, Firebase

**Software Development:** Python (Crypto.Cipher, pandas, openpyxl, Selenium), C, C++, MATLAB, Git, Linux

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

## Work Experience

### Four Star Inc

Kitchener, Ontario

SOFTWARE DEVELOPER

Mar. 2022 - Present

- Developed python scripts that automated repetitive excel based tasks such as sheet parsing, duplicate matching, formatting, and delivery route optimization.
- Built the front and backend for an internal web-based tool using React and Flask that allows stakeholders to utilize the python automation scripts.

### EnPowered Inc

Toronto, Ontario

DATA ANALYST / CODE BREAKER

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.

### Grobo Inc

Waterloo, Ontario

SOFTWARE DEVELOPER / MECHANICAL DESIGN ENGINEER

Sep. 2021 - Dec. 2021

- Developed software solutions and scripts to procure and process data as well as increase operating efficiency in web traffic and supply chain.
- Designed two products incorporating plastic injection molding design, efficient manufacturing techniques, and integration of electromechanical components such as touch screen LCD's, mechanical pumps, and PCBs.

## Projects

### Login System

A PRODUCTION LOGIN SYSTEM WITH REGISTRATION, LOGIN AUTHORIZATION, SESSIONS, AND JSON WEB TOKEN AUTHENTICATION.

- The frontend was developed with React with fetching handled through Axios. Deployed on Firebase.
- The backend was developed with Express and MySQL as the database. Deployed on Heroku and ClearDB.
- Skills: Express.js, Axios.js, JSON Web Tokens, Sessions, MySQL, React.js, Firebase, Heroku

### E-Commerce Website

FULLY FUNCTIONING E-COMMERCE WEBSITE WITH API-BASED BACKEND AND STRIPE PAYMENTS.

- Used Commerce.js for the backend, used API calls on the frontend to retrieve cart, checkout, order information.
- Utilized Material UI for the frontend as well as the Stripe API for the payments system.
- Skills: React.js, MUI, Commerce.js, Stripe.js, Web APIs, Firebase

### Hack the 6ix

Toronto, Ontario

HACKATHON BY HACK THE 6IX @ WEALTHSIMPLE HQ

Aug. 2022

- Built Warepair, a web app that allows contractors and clients to easily find each other.
- Designed the UI, built the frontend, and deployed both front and backend to heroku.
- Skills: 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