

# Hangsihak Sin

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🔗 <https://github.com/hsihak>

## SUMMARY

Seeking a Spring Term 2024 Co-op opportunity as a Software Developer, Full-stack Developer, or Data Analyst to leverage my technical skills, passion for coding, and strong problem-solving skills to innovative projects while gaining practical experience in a professional software development environment.

## EDUCATION

### Bachelor of Science (Honours), Computer Science

September 2022 – August 2026

Conestoga College, GPA: 3.85/4

Waterloo, ON

- **Courses:** Object-Oriented Programming (OOP), Data Structures and Algorithms, User-Experience Design, System Analysis and Design, Introduction to Relational Database, Software Quality
- **Activities:** Google Developer Student Club, Coding Jam, ThinkNorth Hackathon, Ignition Hacks

### Ontario College Diploma — Electro-Mechanical Maintenance

August 2019 – May 2021

Conestoga College, GPA: 3.90/4

Cambridge, ON

- **Courses:** Generic CAD (2D), Programmable Logic Controllers (PLCs), Industrial Electronics, Robot Programming

## TECHNICAL SKILLS SUMMARY

**Languages:** HTML/CSS, JavaScript, TypeScript, Python, C/C++, SQL, JQuery, PHP (basics)

**Technologies:** React.js, Vue.js, Node.js, Express.js, Tailwind CSS, Styled Components, Material UI

**Tools:** Docker, Vagrant, Cisco Packet Tracer, Wireshark, Unity (basics), Oracle Virtual Machine, Azure DevOps, GitHub, Adobe XD, Roblox, C++ Builder, Figma, Flask, JMeter, Selenium

**Databases:** MySQL, MongoDB Atlas, Firebase

## RELATED WORK EXPERIENCE

### Frontend Developer Volunteer

October 2023 - Present

Communitech

Kitchener, ON

- Collaborating with cross-functional teams to enhance user experience and functionality.
- Integrating frontend components with the backend machine learning algorithms and databases.
- Creating responsive and user-friendly web interfaces for community using React.js and Flask.
- Contributing to projects that directly support and benefit the Region of Waterloo community through Communitech.
- Currently developing Knowledge Container and DocWise projects. Increased application performance by 70%; scaled to serve.

### Software Development Intern

June 2023 - September 2023

Kenja K.K

Tokyo, Japan

- Collaborated with senior engineers to design, code, test, and maintain software applications for multiple clients.
- Participated in Agile development practices, including daily stand-up and sprint planning sessions.
- Conducted code reviews and collaborated with developers to address code-issues reported on Zenhub issue tracking system.
- Assisted in developing Rooms3 platform by transforming Figma design into functional code using Vue.js and TypeScript.

- Improved programming module by 15%, increasing the overall speed of the software by 10%.
- Performed unit testing on individual functions and monitored full-scale system performance.

## PROJECTS

### RiskAlert

September 2023 -December 2023

Conestoga College

Waterloo, ON

Github: <https://github.com/mag9073/CSCN72030-Sec3-Group1>

- Developed a software system to help in preventive healthcare using Python machine learning algorithms and React.js.
- Created an HMI (Human-Machine Interface) for healthcare professionals, making it more convenient to evaluate patient risk.
- Designed and implemented code from Unified Modelling Language (UML) through the process of System Analysis and Design.
- Implemented the K-Nearest Neighbors (KNN) machine learning algorithm to predict the likelihood of patients developing conditions like Diabetes Mellitus, Heart Disease, and Stroke.
- Conducted a thorough unit testing, integration testing, and usability testing.
- **Technologies used:** Scikit learn, NumPy, Pandas, Python, Flask API, JavaScript, React.js, Jira, MS Teams, Adobe XD.

### MedAlert

August 2023

Ignition Hacks

Toronto, ON

Github: <https://github.com/SBerenji/MedAlert>

- Developed an all-in-one application to enhance communication between patients and healthcare providers.
- Provided healthcare providers with a platform for entering prescriptions, tracking medications, and preventing drugs and allergy interactions.
- Successfully collaborated with a cross-functional team to complete the project within the hackathon deadline.
- **Technologies used:** Node.js, Express.js, React, Tailwind CSS, MongoDB, Adobe XD.

### LibraSense

May 2023

ThinkNorth Smart Cities 2023 – Seneca College

Toronto, ON

Github: <https://github.com/scleung04/LibraSense-Project>

- Successfully advanced to the final round of a competitive hackathon competition.
- Designed wireframe prototypes with Adobe XD to visualize and plan the user interface and user experience.
- Integrated ESP-32 camera and sound sensor into an Arduino Uno-based system, leveraging the TensorFlow image detection library to identify people in a room.
- **Technologies used:** React Native, TailwindCSS, Python, TensorFlow, Arduino, Firebase, Adobe XD.

### NNClassifier

April 2023

Conestoga College

Waterloo, ON

Github: <https://github.com/hsihak/Nearest-Neighbor-Classifer>

- Developed a C++ program that follows Object-oriented programming (OOP) and applies nearest neighbor algorithms to predict a phone's orientation by reading 3D gravity data from its sensor.
- Created a class diagram using unified modeling language to show software component structure and relationships.

## INVOLVEMENT

### Hardware Checkout Volunteer

September 2023

University of Waterloo - Hack the North

Waterloo, ON

- Assisted in the Hardware Checkout process, handling the checkout and return of hardware equipment to hackers while maintaining inventory accuracy.
- Helped hackers in the setup of their workstations to prepare for the project showcase in design bay event.

### Orientation Volunteer

August 2023

Conestoga College

Waterloo, ON

- Greeted and provided guidance to incoming students, ensuring they were directed to the appropriate orientation activities.