Hangsihak Sin

Waterloo, Ontario, Canada ✉ hsin9104@conestogac.on.ca ▢ (519) 504-7489 in linkedin.com/in/hangsihaksin

 https://github.com/hsihak ⊕ https://www.hangsihaksin.com/

SUMMARY

Highly Motivated and Detail-Oriented Bachelor of Computer Science student at Conestoga College, with a strong proficiency in HTML5, CSS3, React, Next.js and familiarity with .NET framework, C#, and Angular. Seeking to apply for the Co-op Student - IT Savings and Retirement (Junior Software Developer) position at Equitable Life of Canada. Eager to apply my analytical abilities and technical skills in a dynamic environment, contributing to the development of efficient and high-quality software solutions.

EDUCATION

Bachelor of Science (Honours), Computer Science
September 2022 – August 2026

Conestoga College, GPA: 3.87/4
Waterloo, ON

- **Courses:** Object-Oriented Programming (OOP), Data Structures and Algorithms, System Analysis and Design, Introduction to Relational Database, Software Development Life Cycle, Software Quality I: Testing Tools and Methodologies.
- **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++, C#, SQL

Technologies: React.js, Vue.js, Node.js, Express.js, Familiarity with .NET framework, .NET Core, and Angular.

Testing Tools: Knowledge of software testing methodologies, Familiarity with manual testing like Jest and MS Test and automation test environments such as Mocha, Selenium, and PyTest.

Other Tools: Docker, Vagrant, Cisco Packet Tracer, Wireshark, Oracle Virtual Machine, Azure DevOps, GitHub, Adobe XD, C++ Builder, Figma, Flask, JMeter, Selenium, Git Bash, Command-line prompt, MySQL Workbench, Familiarity with Kubernetes.

Databases: MySQL, MS Sequel Server, 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.

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 development, contributing to the Rooms3 platform using Vue.js and TypeScript.
- Conducted code reviews and collaborated with developers to address code-issues reported on Zenhub issue tracking system.
- Engaged in team discussions for requirement gathering and problem-solving.

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 for various diseases.
- Performed Manual and Automated Testing such Unit Test, Systems Test, Integration Test, and Usability Test.
- Implemented the K-Neartest Neighbors (KNN) machine learning algorithm to predict the likelihood of patients developing conditions like Diabetes Mellitus, Heart Disease, and Stroke.
- Trained the model based on Kaggle datasets.
- **Technologies used:** Scikit learn, NumPy, Python, Flask API, JavaScript, React.js, Jira, MS Teams, Adobe XD, PyTest, Selenium, Jest.

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.

NNClassifer
April 2023

Conestoga College
Waterloo, ON

Github: https://github.com/hsihak/Nearest-Neighbor-Classifier

- 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

- Supported hardware logistics and team coordination.
- 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.
- Facilitated orientation activities for new students.

Student Achievement

CONESTOGA

HANGSIHAK SIN
335B MAYVIEW CRES
WATERLOO, ON
CANADA N2V 1P9

Student Number	7909104
Issued Date:	2024-01-03

Page 1 of 5

	PROGRAM	PROGRAM GPA	PROGRAM WEIGHTED AVERAGE	ACADEMIC STANDING	CONVOCATION DATE
FALL 2017	MOTIVE POWER TECHNICIAN - AUTOMOTIVE SERVICE	3.85	88.39	GRADUATE Program Completion: 2019-04-19 Document of Recognition: ONTARIO COLLEGE DIPLOMA Academic Award: - DISTINCTION	June 2019
FALL 2019	ELECTRO-MECHANICAL MAINTENANCE	3.91	91.00	ELIGIBLE TO CONTINUE	
FALL 2019	ELECTRO-MECHANICAL MAINTENANCE	3.90	90.70	GRADUATE Program Completion: 2021-05-01 Document of Recognition: ONTARIO COLLEGE DIPLOMA Academic Award: - HIGH DISTINCTION	November 2022A
FALL 2021	BACHELOR OF BUSINESS ADMINISTRATION (HONOURS) - INTERNATIONAL BUSINESS MANAGEMENT	4.00	93.00	ELIGIBLE TO CONTINUE Departure Date: 2021-10-06	
FALL 2022	BACHELOR OF COMPUTER SCIENCE (HONOURS)	3.87	89.17	ELIGIBLE TO CONTINUE	

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT

MOTIVE POWER TECHNICIAN - AUTOMOTIVE SERVICE

FALL 2017   Level 1

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
MOTV2205-100	MOTIVE POWER BUSINESS I	3	45	A+	91	4.00
COMM1085-101	COLLEGE READING & WRITING SKILLS	3	42	A	84	3.75
AUTO1460-100	INTRODUCTION TO AUTOMOTIVE SERVICE AND REPAIR	9	180	A+	92	4.00
AUTO1470-100	AUTOMOTIVE REPAIR PRACTICES	1	15	A	86	3.75
MOTV1210-102	DRAWINGS, SCHEMATICS AND BASIC ELECTRICITY	2	30	A+	95	4.00
MOTV1705-100	OZONE DEPLETION PREVENTION CERTIFICATION	1	15	A	87	3.75
COMP1280-101	COMPUTER APPLICATIONS	2	30	A+	100	4.00
MATH1830-101	APPLIED MATHEMATICS	3	45	A+	92	4.00

Session GPA: 3.95
Session Weighted Average: 91.33

WINTER 2018   Level 2

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
AUTO1230-101	ENGINE SYSTEMS I	3	36	A	82	3.75
AUTO1250-102	ELECTRICAL/ELECTRONIC FUEL AND EMISSION SYSTEMS I	7	98	A	87	3.75
AUTO1270-101	DRIVE TRAIN SYSTEMS I	3	36	A	86	3.75
AUTO1290-101	SUSPENSION/STEERING AND BRAKE SYSTEMS I	3	42	B+	75	3.50

This is not an official transcript. It is the responsibility of the student to ensure that the requirements of the program are being met. Please report omissions and errors to the Registrar's Office within 4 months of course completion. Consult the Student Guide for appeal deadlines.

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COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
MOTIVE POWER TECHNICIAN - AUTOMOTIVE SERVICE						
CDEV2070-101	CAREER DEVELOPMENT	1	15	A+	97	4.00
MOTV2250-100	LEGAL ISSUES IN MOTIVE POWER	2	30	A	86	3.75
WELD1610-102	WELDING FOR MOTIVE POWER	2	30	A+	93	4.00
LIBS1540-101	STUDENT SUCCESS FOR HIGHER LEARNING	3	42	A+	92	4.00

Session GPA: 3.78
Session Weighted Average: 86.21

FALL 2018 Level 3						
AUTO1220-102	AIR CONDITIONING SYSTEMS	2	28	A	83	3.75
AUTO1260-102	ELECTRICAL/ELECTRONIC AND EMISSION SYSTEMS II	7	98	A	85	3.75
AUTO2060-100	ENGINE SYSTEMS II	2	42	A	84	3.75
AUTO2080-100	DRIVE TRAIN SYSTEMS II	2	42	A	84	3.75
MOTV2215-100	ENGINE FAILURE ANALYSIS	2	42	B+	78	3.50
MOTV2265-102	MOTIVE POWER BUSINESS II	4	56	A+	98	4.00
MOTV2285-101	MOTIVE POWER SHOP MANAGEMENT	2	28	A+	95	4.00
LIBS1680-101	INTRODUCTION TO WORLD CULTURE	3	42	A	88	3.75

Session GPA: 3.79
Session Weighted Average: 87.46

WINTER 2019 Level 4						
AUTO2090-100	SUSPENSION/STEERING AND BRAKE SYSTEMS II	2	42	B+	75	3.50
MOTV2275-100	ELECTRIC HYBRIDS	2	42	A+	92	4.00
MOTV2295-100	MOTIVE POWER RESEARCH	2	28	A+	97	4.00
MOTV2300-101	PARTS MANAGEMENT	3	42	A+	98	4.00
MOTV2450-100	FUELS AND DIAGNOSTICS	4	56	A+	90	4.00
LIBS1160-102	ESSENTIALS OF CANADIAN HISTORY	3	42	A	82	3.75
ELEC2130-100	ADVANCED ELECTRICAL SYSTEMS	4	56	A	86	3.75

Session GPA: 3.86
Session Weighted Average: 88.60

ELECTRO-MECHANICAL MAINTENANCE						
FALL 2019 Level 1						
ELEC1640-101	ELECTRICAL SAFETY AND CODE	2	28	A+	91	4.00
ELEC1850-100	ELECTRICAL PRINCIPLES I	3	42	A+	90	4.00
ELEC1860-100	ELECTRICAL PRACTICES I	3	56	A	88	3.75
MILL1390-101	MECHANICAL PRINCIPLES I	4	56	A	89	3.75
MILL1400-101	MECHANICAL PRACTICES I	4	70	A+	93	4.00
MILL1540-101	PRECISION MEASURING FOR MECHANICAL MAINTENANCE	1	14	A+	91	4.00

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COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE	GRADE POINT
ELECTRO-MECHANICAL MAINTENANCE					
MILL1380-101	MECHANICAL/SHOP SAFETY	1	14	A+	99	4.00
CON0101-100	CONESTOGA 101	0	1	AT		

Session GPA: 3.90
Session Weighted Average: 90.78

ELECTRO-MECHANICAL MAINTENANCE

WINTER 2020 Level 2

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
CEPR1020-100	CO-OP AND CAREER PREPARATION	1	14	P		
DRWG1685-100	GENERIC CAD (2D)	2	42	A+	95	4.00
ELEC1670-102	PROGRAMMABLE LOGIC CONTROLLERS I	3	42	A+	94	4.00
ELEC1680-102	ELECTRICAL APPLICATIONS IN AUTOMATION AND ROBOTICS I	4	56	A+	92	4.00
MILL1410-102	MECHANICAL APPLICATIONS IN AUTOMATION AND ROBOTICS I	3	42	A+	100	4.00
MILL1420-102	FLUID POWER 1	3	42	A+	91	4.00
MILL1430-102	PREDICTIVE AND PREVENTATIVE MECHANICAL MAINTENANCE - 1	3	42	A+	100	4.00
MILL1440-102	RIGGING AND HOISTING	2	28	A+	91	4.00

Session GPA: 4.00
Session Weighted Average: 94.75

SPRING 2020 Level 3

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
COOP1580-100	CO-OP WORK TERM (ELECTRO-MECHANICAL MAINTENANCE)	14	420	P		

FALL 2020 Level 4

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
WELD2030-101	WELDING - 1	3	42	A+	100	4.00
ELEC2070-100	ELECTRICAL PRACTICES II	3	56	A	83	3.75
MILL2120-101	MECHANICAL PRACTICES II	4	56	A+	93	4.00
ELEC2060-100	ELECTRICAL PRINCIPLES II	3	42	A	80	3.75
MATH2270-101	TRADE CALCULATIONS 2	2	28	A+	96	4.00
MILL2110-101	MECHANICAL PRINCIPLES II	4	56	A	82	3.75
OHS1320-101	SAFETY IN THE WORKPLACE	1	14	P		

Session GPA: 3.87
Session Weighted Average: 88.47

WINTER 2021 Level 5

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT
WELD2130-101	WELDING II	3	42	A	87	3.75
ELEC2120-100	INDUSTRIAL ELECTRONICS	2	28	A+	96	4.00
ELEC2270-101	PROGRAMMABLE LOGIC CONTROLLERS II	3	42	A	89	3.75

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HANGSIHAK SIN

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE		GRADE POINT

ELECTRO-MECHANICAL MAINTENANCE

ELEC2280-101	ELECTRICAL APPLICATIONS IN AUTOMATION AND ROBOTICS - 2	4	56	A	88	3.75
FPLT1120-101	FIELD PLACEMENT (MILLWRIGHT AND MAINTENANCE)	2	63	P		
MILL2140-101	FLUID POWER - 2	3	42	A+	92	4.00
MILL2150-101	PREDICTIVE AND PREVENTATIVE MECHANICAL MAINTENANCE - 2	3	42	A+	91	4.00
MILL2130-101	MECHANICAL APPLICATIONS IN AUTOMATION AND ROBOTICS - 2	3	42	A+	98	4.00

Session GPA: 3.88
Session Weighted Average: 91.19

BACHELOR OF BUSINESS ADMINISTRATION (HONOURS) - INTERNATIONAL BUSINESS MANAGEMENT

FALL 2021   Level 1

ENGL71000-101	ACADEMIC COMMUNICATIONS		42	W		
BUS71200-101	ORGANIZATIONAL BEHAVIOUR WITH INTERNATIONAL APPLICATIONS		42	W		
COMP72370-101	INFORMATION MANAGEMENT		56	W		
ECON71050-101	INTRODUCTION TO MICROECONOMICS		42	W		
MATH71775-101	BUSINESS MATH		56	W		
CHIN71000-102	INTRODUCTION TO CHINESE LANGUAGE AND CULTURE		42	W		

BACHELOR OF COMPUTER SCIENCE (HONOURS)

FALL 2022   Level 1

CSCN71000-100	SOFTWARE ENGINEERING FUNDAMENTALS	3	42	A	82	3.75
CSCN71010-100	COMPUTER SYSTEMS ARCHITECTURE FUNDAMENTALS	3	42	A	82	3.75
CSCN71020-100	PROJECT I: SOFTWARE IMPLEMENTATION AND UNIT TESTING	3	42	A+	94	4.00
ENGL71200-101	SCIENTIFIC AND TECHNICAL COMMUNICATIONS	3	42	A+	93	4.00
MATH71010-100	LINEAR ALGEBRA AND DISCRETE MATHEMATICS	4	56	A+	95	4.00
PROG71985-101	PROGRAMMING PRINCIPLES	4	56	A	87	3.75

Session GPA: 3.88
Session Weighted Average: 89.05

WINTER 2023   Level 2

CSCN71030-100	PROJECT II: TEAM BASED SOFTWARE DEVELOPMENT	3	42	A+	99	4.00
PROG71030-100	USER EXPERIENCE DESIGN	3	42	A+	93	4.00
PROG71040-100	OPERATING SYSTEMS AND SECURITY FUNDAMENTALS	3	42	A	82	3.75
PROG72365-101	DATA STRUCTURES AND ALGORITHMS	4	56	A	82	3.75

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COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE	GRADE POINT
BACHELOR OF COMPUTER SCIENCE (HONOURS)					
SOC71500-101	GROUP DYNAMICS	3	42	A	86	3.75
PROG71020-101	OBJECT ORIENTED PROGRAMMING	3	42	A	85	3.75

Session GPA: 3.83
Session Weighted Average: 87.53

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE	GRADE POINT
FALL 2023 Level 3					
CSCN72000-100	INTRODUCTION TO DATABASE SYSTEMS	3	42	A+	96	4.00
CSCN72010-100	SOFTWARE QUALITY I: TESTING TOOLS AND METHODOLOGIES	3	42	A	89	3.75
CSCN72020-100	COMPUTER NETWORKS	3	42	A	82	3.75
CSCN72030-100	PROJECT III: SOFTWARE DEVELOPMENT LIFE CYCLE	3	42	A+	100	4.00
SENG71000-100	SYSTEMS ANALYSIS AND DESIGN	3	42	A+	90	4.00
CEPR71050-100	CO-OP AND CAREER PREPARATION	1	14	P		

Session GPA: 3.90
Session Weighted Average: 91.40

TRANSFER CREDITS

COURSE NUMBER	DESCRIPTION	CREDITS	HOURS	GRADE	GRADE POINT
MATH1660-101	TRADE CALCULATIONS I		14	ITC		