

Zion Chong

4th Year Computer Science Student

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SKILLS

Programing languages:	Java, C#, C, C++, Python, JavaScript, HTML, PHP, CSS
Database:	DynamoDB, S3, MongoDB, MySQL, Oracle SQL, SQL Server, Firebase
Tools / platforms:	IoT, Linux, AWS, Git, GitHub, Raspberry Pi, Arduino, Unity, Gradio
library / Frameworks:	jQuery, AJAX, Node.js, Bootstrap
ML/AI:	Tensorflow, SKlearn, Keras, Librosa, Numpy, Matplotlib, Huggingface
Languages:	English, Mandarin, Japanese (Conversational)
Transferable skill:	Leadership, Teamwork, Problem Solving, Time Managment

EDUCATION

01/2019 – present	Computer Science, Thompson Rivers University - Recognized on the Dean's list (2022) (2023) - Les Koritz Memorial Award - Participated in Computer Science, Japanese, photography, and Game club. - Programming, software engineering, IoT development	Kamloops, Canada
09/2022 – 08/2023	Exchange Student, Toyo University - Involvement in language clubs, contributing to teaching and learning sessions for diverse linguistic skills. - Explored a diverse range of courses during studies in Japan, gaining exposure to various subjects and perspectives.	Tokyo, Japan
09/2015 – 06/2018	Vocational High School Diploma, Jingwen High School - Learned hardware fundamentals including circuitry and Programmable Logic Devices (PLD). - Gained proficiency in software coding and electronics.	Taipei, Taiwan

WORK EXPERIENCE

06/2020 – present	Software Developer, Kjet Air Duct Cleaning - Developed, tested, and maintained the company's customer database software. - Created software and user interfaces using Visual Studio (C#). Implemented a secure and efficient customer database utilizing SQL Server. - Applied Agile software development methodology for streamlined collaboration and improved customer satisfaction.	Mississauga, Canada
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PROJECTS

- 2023 **IoT Workplace Safety and Security, Monitoring with Cloud Processing**
- Demonstrating efficient cloud processing and monitoring integration for sensor data management.
 - Leading a cohesive team of five members to successfully execute the project, ensuring efficient coordination, time management, and alignment with objectives.
 - Utilizing Raspberry Pi, sensors, and cloud-based AWS services (IoT Core, Lambda, DynamoDB, S3, Sagemaker)
- 01/2024 – 04/2024 **IoT Proof of Concept for Molycop**
- Led a team of four individuals in collaboration with another team to develop a proof-of-concept product for a school project partnered with Molycop
 - Focused on improving factory productivity through hardware and software integration
 - Used technologies such as Raspberry Pi, Arduino, industrial equipment, LoRa chips, and NFC
 - Utilized agile methodology throughout the project lifecycle, ensuring efficient collaboration, adaptability to changing requirements, and timely delivery of milestones
- 2024 **Emotion Recognition using Speech**
- Developed a Speech Emotion Recognition (SER) system employing CNNs, RNNs, and a hybrid model combining both architectures to predict user speech emotion
 - Model trained on collected and 8 open-source audio data
 - Implemented feature extraction techniques such as Zero-Crossing Rate (ZCR), Root Mean Square (RMS), and Mel Frequency Cepstrum Coefficient (MFCC)
 - Created an interactive application deployed on Hugging Face, allowing users to input audio samples and receive real-time emotion predictions interactively
- 2022 **SQL Injection and Prevention testing and evaluation**
- Conducted comprehensive testing of potential injection methods on both the website and local databases to identify vulnerabilities.
 - Developed and deployed code enhancements to fortify the system against potential injection attacks.
- 2020 **Restaurant menu app with AR features**
- Designed a restaurant's ramen menu with interactive, life-like 3D representations projected onto your table using augmented reality (AR) technology.
 - Seamlessly access restaurant information, including contact details, integrated Google Maps for easy navigation, and social media integration.

CERTIFICATION

- 2017 **Computer Maintenance Class – C Certification** Taipei, Taiwan
- Assemble and dismantle PC
 - OS installation (Windows and Linux)
 - Software Installation
 - Install RJ45 connector and network connection
 - Computer functionality test

INTERESTS

IoT development • Application development • Raspberry Pi / Arduino • Language studies • Film & Digital Photography • Gym • Sports