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,
Tools / platforms:	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)

EDUCATION

01/2019 – present   **Computer Science,** *Thompson Rivers University*   Kamloops, Canada
- 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

09/2022 – 08/2023   **Exchange Student,** *Toyo University*   Tokyo, Japan
- 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.

09/2015 – 06/2018   **Vocational High School Diploma,** *Jingwen High School*   Taipei, Taiwan
- Learned hardware fundamentals including circuitry and Programmable Logic Devices (PLD).
- Gained proficiency in software coding and electronics.

WORK EXPERIENCE

06/2020 – present   **Software Engineer,** *Kjet Air Duct Cleaning*   Mississauga, Canada
- 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.

06/2017 – 08/2017   **Teacher Assistant,** *All new Cram School*   Taipei, Taiwan
- Supported teacher with preparation of class material, homework, and marking tests.

PROJECTS

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 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

2023   **IoT Workplace Safety and Security, Monitoring with Cloud Processing**
- Demonstrating efficient cloud processing and monitoring integration for sensor data management.
- Utilizing Raspberry Pi, sensors, and cloud-based AWS services (IoT Core, Lambda, DynamoDB, S3, Sagemaker)

2023   **Computational Art with Genetic algorithm**
- Used a genetic algorithm to iteratively generate an image resembling a given image.
- Incorporated the generated image with my own photography images.

2023   **Dungeoneer**
- 3D 3rd Person PCG Dungeon Crawler
- Utilized procedural content generation for music, map generation, character skin, and enemy spawn location.

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

VOLUNTEER

2019 – 2020   **Orientation Volunteer,** *Thompson Rivers University*   Kamloops, Canada
- Welcoming, inspiring, and supporting new students. Helping with event planning.

2015 – 2018   **Community Volunteer,** *Jingwen High School*   Taipei, Taiwan
- Help and organize events. Participated in community service work and charity events.

INTERESTS

IoT development • Application development • Language studies • Film & Digital Photography • Gym Sports • Guitar