

# Zion Chong

4th Year Computer Science Student

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🌐 <https://github.com/ZionC27> in <https://www.linkedin.com/in/zion-c/>

## SKILLS

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Programing languages: Java, C#, C, C++, Python, JavaScript, HTML, PHP, CSS,  
Database: DynamoDB, S3, MySQL, Oracle SQL, SQL Server,  
Tools / platforms: AWS, Git, GitHub, Raspberry Pi, Arduino, Unity,  
library / Frameworks: jQuery, AJAX, Node.js, Bootstrap,  
ML/AI: Tensorflow, SKlearn, Keras, Librosa, Numpy, Matplotlib,  
Languages: English, Mandarin, Japanese (Conversational)

## EDUCATION

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01/2019 – present	<b>Thompson Rivers University, Computer Science</b> <ul style="list-style-type: none"><li>- Recognized on the Dean's list (2022) (2023)</li><li>- Les Koritz Memorial Award</li><li>- Participated in Computer Science, Japanese, photography, and Game club.</li><li>- Programming, software engineering, IoT development</li></ul>	Kamloops, Canada
09/2022 – 08/2023	<b>Toyo University, Exchange Student</b> <ul style="list-style-type: none"><li>- Involvement in language clubs, contributing to teaching and learning sessions for diverse linguistic skills.</li><li>- Explored a diverse range of courses during studies in Japan, gaining exposure to various subjects and perspectives.</li></ul>	Tokyo, Japan
09/2015 – 06/2018	<b>Jingwen High School, Vocational High School Diploma</b> <ul style="list-style-type: none"><li>- Learned hardware fundamentals including circuitry and Programmable Logic Devices (PLD).</li><li>- Gained proficiency in software coding and electronics.</li></ul>	Taipei, Taiwan

## WORK EXPERIENCE

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06/2020 – present	<b>Software developer, Kjet Air Duct Cleaning</b> <ul style="list-style-type: none"><li>- Developed, tested, and maintained the company's customer database software.</li><li>- Created software and user interfaces using Visual Studio (C#). Implemented a secure and efficient customer database utilizing SQL Server.</li><li>- Applied Agile software development methodology for streamlined collaboration and improved customer satisfaction.</li></ul>	Mississauga, Canada
06/2017 – 08/2017	<b>Teacher Assistant, All new Cram School</b> <ul style="list-style-type: none"><li>- Supported teacher with preparation of class material, homework, and marking tests.</li></ul>	Taipei, Taiwan

## PROJECTS

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| 2024 | <b>Emotion Recognition using Speech</b> <ul style="list-style-type: none"><li>- Utilizing CNNs, RNNs, and a combination of both to predict user speech emotion.</li><li>- Model trained on collected and open-source audio data</li><li>- Trained models are fine-tuned to achieve the best accuracy.</li></ul>   |
| 2023 | <b>IoT Workplace Safety and Security, Monitoring with Cloud Processing</b> <ul style="list-style-type: none"><li>- Demonstrating efficient cloud processing and monitoring integration for sensor data management.</li><li>- Utilizing Raspberry Pi, sensors, and cloud-based AWS services (IoT Core, Lambda, DynamoDB, S3, Sagemaker)</li></ul>  |
| 2023 | <b>Computational Art with Genetic algorithm</b> <ul style="list-style-type: none"><li>- Used a genetic algorithm to iteratively generate an image resembling a given image.</li><li>- Incorporated the generated image with my own photography images.</li></ul>  |
| 2023 | <b>Dungeoneer</b> <ul style="list-style-type: none"><li>- 3D 3rd Person PCG Dungeon Crawler</li><li>- Utilized procedural content generation for music, map generation, character skin, and enemy spawn location.</li></ul>   |
| 2020 | <b>Restaurant menu app with AR features</b> <ul style="list-style-type: none"><li>- Designed a restaurant's ramen menu with interactive, life-like 3D representations projected onto your table using augmented reality (AR) technology.</li><li>- Seamlessly access restaurant information, including contact details, integrated Google Maps for easy navigation, and social media integration.</li></ul> |

## CERTIFICATION

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| 2017 | <b>Computer Maintenance Class – C Certification</b> <ul style="list-style-type: none"><li>- Assemble and dismantle PC</li><li>- OS installation (Windows and Linux)</li><li>- Software Installation</li><li>- Install RJ45 connector and network connection</li><li>- Computer functionality test</li></ul> | Taipei, Taiwan |
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## VOLUNTEER

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| 2019 – 2020 | <b>Orientation Volunteer, Thompson Rivers University</b> <ul style="list-style-type: none"><li>- Welcoming, inspiring, and supporting new students. Helping with event planning.</li></ul> | Kamloops, Canada |
| 2015 – 2018 | <b>Community Volunteer, Jingwen High School</b> <ul style="list-style-type: none"><li>- Help and organize events. Participated in community service work and charity events.</li></ul>     | Taipei, Taiwan   |

## INTERESTS

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

## REFERENCES

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Available upon request