# Jan To Tong

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## Education

San Jose State University, May 2021
Bachelor of Science in Computer Science – GPA: 3.27

## Experience

**Sep 2020 – March 2021**
**Software Intern • United Microelectronics Centre (Hong Kong) • *Hong Kong***

- Developed a web-based key word recorder to collect key word audio files with a silence trimming feature
- Worked on a smart home device project utilizing Ultra-Wide-Band technology
- Integrated Raspberry Pi with MDEK1001 to implement a Real-Time Locating System(RTLS)
- Developed web base front end application using Javascript, CSS, and HTML in conjunction with Flask-SocketIO

**Jun 2019 – Aug 2019**
**Project Intern • Applied Science and Technology Research Institute • *Hong Kong***

- Developed a customized micro Linux operating system kernel (336 kB) with C
- Developed complex GUI using JavaFX
- Worked with team members and team lead to fulfil requirements within a limited timeframe
- Advocated unit testing within the team to improve code coverage and product ownership

## Projects

### Key Word Recorder (github.com/jantotong/Key-Word-Recorder)

- Web-based application hosted using Google Compute Engine
- Used JavaScript, CSS, and HTML for front-end, Python for back-end audio processing (silence trimming), and Flask for web-server
- Automatically uploads to Google Cloud Storage after recording all keywords
- Collected audio files are used to train AI models with TensorFlow

### Vehicle Selector (github.com/jantotong/Vehicle-Selector)

- Provides user the best car choice based on user input
- Web-based (HTML & CSS) application hosted locally using Apache Tomcat
- Used SQL and MySQL for data querying. Java for back-end processing

### Vintage Arcade Game (github.com/jantotong/Vintage-Arcade-Game)

- Game created using C++, openFrameworks, and Object-Oriented Programming to create a 2D shooter game
- Game supports movement of characters by matrix transformation
- Rate and direction of fire is adjustable by sliders in the interface
- Created sprite animations using Adobe Animate

## Technical Skillsets

***Data Storage:*** MySQL, MongoDB, Google Cloud Storage
***Languages:*** Java, Python, JavaScript, CSS, HTML, C, C++, SQL, MATLAB
***Team Management Software:*** Github, Jira, BitBucket, GitKraken
***API Architect:*** RESTful JSON, XML
***Third-party Frameworks:*** React, Pydub, Flask, Django, Apache, Java Servlet, TensorFlow, facelib, SocketIO