

Tsai-Szu (Chelsea) Hu

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SUMMARY OF QUALIFICATIONS

- Experience in object-oriented development with proficiency in programming C and C++
- Demonstrated creative problem-solving and analytical skills
- Effective communicator and enthusiastic leader proven by leading projects
- Ability to adapt quickly to new environments and able to work under great pressure through self motivation

TECHNICAL SKILLS

- **Proficient:** C, C++, Linux, Git, Matlab
- **Knowledgeable:** Android, JavaScript, Python, SQL
- **Basic:** Unity, Java, Windows, LaTeX

EDUCATION

University of Waterloo

Waterloo, Canada

Study Abroad Exchange Program, Computer Science

September 2015 - April 2016

- **Relevant Courses:** Object-Oriented Software Development, Software Architecture, Database Management, Artificial Intelligence, Machine Learning

National Taiwan University

Taipei, Taiwan

Candidate for Bachelor of Science in Computer Science

Expected June 2017

- #1 ranked university in Taiwan
- **GPA:** 3.87 / 4.3
- **Relevant Courses:** Data Structure and Algorithms, Algorithm Design and Analysis, Systems Programming, Operating Systems, Music Signal Analysis and Retrieval

COURSE PROJECTS

ChamberCrawl3000

December 2015

- Co-developed and designed a rogue-like video game using C++
- Implemented several design patterns: observer, visitor, factory and decorator pattern
- Contributed to 80% of the code and thoroughly tested with GDB and valgrind

Pitch Whac-a-Mole

June 2015

- Led two people to develop a whac-a-mole computer game controlled by pitch in Unity3D; achieved A+ in final grade
- Analyzed sound frequency through fast-Fourier transform; resulted in less than 5Hz of deviation
- Designed the homepage and icons of the game with Photoshop

Yo Bkie!

May 2015

- Built a bike-sharing app in a group of five with Android Studio and Raspberry Pi; lock and locate car through a remote smartphone
- Analyzed different ways of implementing the database and server

Company Simulation-Oral Presentation

December 2014

- Confidently pitched an idea on an interactive navigation app for 20 minutes in front of 80 people
- Project-managed a six-person team by assigning responsibilities and arranging meetings
- Integrated statistical diagrams and flow charts into slides to support convincing points

LEADERSHIP & VOLUNTEER EXPERIENCE

Cancer Child Service

Taipei, Taiwan

Senior Executive

September 2014 – August 2015

- Volunteered at the children's hospital to accompany children with cancer once a week
- Led a team of five to design educational projects involving Taiwanese folktales
- Invented games and activities for a 3-day summer camp with 30 cancer survivors

TFG&CKSH Alumni Chinese Orchestra

Taipei, Taiwan

General Manager

September 2014 – August 2015

- Organized a Chinese traditional music concert integrating pop music and video game soundtracks in a year; Sold out all 1000 tickets
- Received government subsidy to promote traditional art to high school students in the community; held a demonstration concert at CKSH
- Cooperated with the largest ticket service in Taiwan to increase online visibility and reduce administrative procedures

Computer Science Night

Taipei, Taiwan

Director of Public Relations

October 2014 – April 2015

- Directed a team of eight to fundraise for a show consisting of drama, bands, pop dance and Chinese yo-yo; attracted 500+ audience
- Raised 30% more funds and sponsorship for makeup; reduced 5% of the budget
- Created a business plan focused on marketing strategies to promote visibility

YMCA Summer Service Abroad

Long-Yan, China

Team Leader

August 2013

- Organized children summer camp in an ancient remote village with 100+ participants
- Led a group of four to plan lectures and educational events for seven days
- Promoted arts education by origami and drawing activities

SKILLS & INTERESTS

- **Languages:** Mandarin(Native)
- **Interests:** Dancing(Pop Dance Club), Piano, Flute, Classical Guitar, Chinese Flute, Badminton