

# Chern Yee Chua

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## Education

### UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK

FEB 2016 (GRADUATED)

- Bachelor of Science in Computer Engineering, 3.89/4.00 GPA
- Dean's List (SPRING 2013 – FALL 2015)
- Member of Tau Beta Pi Engineering Honor Society, Tau Sigma Society, ACM UB Chapter, GDG Buffalo Chapter
- Relevant coursework: Data Structures, Real-time & Embedded OS, Microprocessors & Microcomputers, Hardware/Software Integrated System, Systems Administration, Operating Systems, Software Engineering

## Employment Experience

### UNDERGRADUATE RESEARCH ASSISTANT, UNIVERSITY AT BUFFALO

JUNE 2015 – FEB 2016

- Developed an Eclipse plugin software that records the changes under Java Model into SQLite database
- Wrote a script in Java that extracts over 1000 databases from student projects and sorts them accordingly
- Performed data analysis in R to study the process of how beginners learn to write code
- GitHub link: <https://github.com/issacchern/Sapphire>

### STUDENT ASSISTANT, UB CAMPUS DINING & SHOPS

JAN 2014 – MAY 2015

- Resolved and provided customers with an excellent experience and quality service
- Assisted chefs in preparing food items and dishes and ensured the cleanliness of kitchen and dining area
- Took initiative to help other co-workers when scheduled duties were completed

## Skills & Abilities

### TECHNICAL SKILLS

Programming Skills: Java (Expert), C and C++ (Intermediate); ARM Assembly (Proficient)  
Other Language Skills: HDL Verilog (Knowledgeable); HTML, CSS, JavaScript and SQL (Knowledgeable)  
Software Tools: Android Studio, Eclipse, Git/GitHub, Keil uVision, Multisim, PuTTY, Shell Script  
Operating Systems: Microsoft Windows, Unix/Linux, Android

### LANGUAGE PROFICIENCY

Chinese Mandarin (Native Fluency), English (Professional Proficiency), Malay (Competent Proficiency)

## Projects

### ANDROID APP "CS SQUARE" (INDIVIDUAL PROJECT)

FEB 2016

- Created a handy Android app to help fellow CS students in preparing for coding interview
- Consisted of over 100++ famous questions ranging from easy to hard level provided with concise solutions in Java
- Play Store link: <https://play.google.com/store/apps/details?id=com.chernyee.cssquare>

### PROJECT "FAIRWELL" (GROUP PROJECT)

SEP 2015 – DEC 2015

- Led a team of eight in creating a debt-solving tool for friends and roommates across Android, IOS, and web platforms
- Collaborated with two team members in building Android app specifically on UI/UX design
- Implemented Parse API for online database and backend solution
- Wrote documents and maintained team website by utilizing HTML, CSS, and JavaScript
- Website link: <http://budgetninja.github.io/> | GitHub link: <https://github.com/budgetninja/FairWellAndroid>
- Play Store link: <https://play.google.com/store/apps/details?id=io.github.budgetninja.fairwellandroid>

### BOMBERMAN IN ARM ASSEMBLY LANGUAGE (GROUP PROJECT)

APR 2014 – MAY 2015

- Outlined game requirements and schedules with my partner regularly
- Implemented and executed Nintendo Bomberman game in ARM microprocessor using UART serial communication
- Optimized runtime performance of the game and utilization of peripherals

### ANDROID APP "WHO IS UNDERCOVER" (INDIVIDUAL PROJECT)

AUG 2014 – DEC 2014

- Customized a famous Chinese board game in both English and Chinese with over 3000 downloads using AppInventor
- Play Store link: [https://play.google.com/store/apps/details?id=appinventor.ai\\_Issac\\_Chua12.Undercover\\_3&hl=en](https://play.google.com/store/apps/details?id=appinventor.ai_Issac_Chua12.Undercover_3&hl=en)

## Volunteering and Experiences

- Provided tutoring on engineering subjects for Tau Beta Pi Honor Society in 2015
- Wrote an Android app that allows user to search for nearby updates using Firebase API in Google Dev Festival 2015
- Design an Android app that integrates with real-time voice control function and automated response system to help people with disabilities in UBHack 2015
- Won the most committed prize in Code for Good hackathon organized by JPMorgan Chase in 2015