

32A, Persiaran Mahsuri 2/5,
11900 Bayan Lepas,
Penang, Malaysia

CHEE YI ONG

+60 12 772 1517
cheeyi@gmail.com
cheeyi.me

EDUCATION

Minneapolis, MN **University of Minnesota, Twin Cities** **Graduated May 2015**

- B.S. in Computer Engineering. Major GPA: 3.586. Elective coursework: Computer Vision; AI; Robotics. Dean's List for Fall 2012 and Spring 2015.

TECHNICAL AND LINGUISTIC SKILLS

- Primary skills: iOS and macOS development (Objective-C, Swift, Xcode), Android development (Java, Kotlin), Bluetooth (BLE) app development, Git, test-driven development.
- Secondary skills: C++, C#, Python, Matlab, HTML5, Javascript, WordPress, SQL, Photoshop.
- Fluent in English, Chinese-Mandarin and Malay/Indonesian.

WORK EXPERIENCE

Software Engineer **Punch Through Design LLC** **May 2017 - Present**

- Gained immense experience in nuances and quirks of BLE APIs in the Android and iOS SDKs.
- Released LightBlue® Explorer for Android, a Bluetooth development utility for other developers.
- Released the Cloud Connect feature for LightBlue® Explorer on iOS, a feature allowing incoming Bluetooth data to be sent to cloud platforms such as AWS IoT and Adafruit IO.

iOS Software Engineer **Expedia, Inc.** **August 2015 - April 2017**

- Part of the core team that developed Package (Flight and Hotel) bundle deals, and a Swift language rewrite and redesign of the legacy Flights booking path.
- Worked on the CircleCI and Jenkins CI pipeline, implemented a Fortify job that runs every night to scan for vulnerabilities in the Expedia iOS code base specific to PCI legal compliance.

Engineering Intern **Pentamaster Corporation, Malaysia** **June 2013 - August 2013**

- Learned the application of computer vision in automating checks for defects in integrated circuits.
- Modified image capture software in Java to calibrate camera accuracy in real time.

PROJECT EXPERIENCE

SwiftReact Android App **Senior Design Capstone Project** **Jan 2015 - May 2015**

- Worked in a team of five to develop a portable and affordable rehabilitation solution for traumatic brain injury patients. The Android app was published onto the Google Play Store.
- Coded a modular and functional Bluetooth communications framework and designed the app's UI.

Matlab Face Recognition **Computer Vision Term Project** **Jan 2015 - May 2015**

- Worked in a team of four to implement Viola-Jones face detection in Matlab from scratch.

iOS Development **Personal Projects** **Dec 2014 - Present**

- Wrote an iOS data visualization app pulling in realtime hotel booking data and displaying the information on a map with hotspot-like visualization as part of an internal hackathon.
- Wrote a parking app which saves the location of a parked car and reminds the user when the parking duration is almost up.