

# Calvin Tantio

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## EDUCATION

B.Eng. (Hons) in Computer Engineering, **National University of Singapore** 08/16 – 05/20 (expected)  
CAP: 4.51/5.00 • Courses: Advanced Software Engineering, Database, OS, Machine Learning, Networks

## SKILLS AND COMPETENCIES

Languages: Java, Python, Swift, JavaScript, C, SQL, NoSQL, HTML / CSS  
Frameworks and Technologies: git, Linux, iOS Development, PyTorch, Node.js, React, Firebase, PostgreSQL

## WORK EXPERIENCE

**Undergraduate Researcher (PyTorch) – National University of Singapore**, Singapore 06/19 – present

- Research on feasible instructor re-intervention in Massive Open Online Courses discussion forums that promote student learning under NUS Web Information Retrieval / Natural Language Processing Group
- The project is integrated into Coursemology, an online learning platform for local educational institutions

**Software Engineering Intern (Swift, Objective-C) – Garena Online Pvt Ltd**, Singapore 12/18 – 05/19

- Developed a pipeline for client-side integration test automation for the iOS and QA teams
- Built client-side mock HTTP and TCP servers to ease UI and Unit testing
- The testing framework is currently used to test iOS applications developed by Garena Online's R&D department

**Software Engineering Intern (Swift, Arduino / C) – Dyson Ltd**, Singapore 05/18 – 07/18

- Built a prototype for Dyson's new product idea on iOS and watchOS platforms
- Spearheaded an Arduino programming workshop for Dyson employees

## TEACHING EXPERIENCE

**Software Engineering Tutor (Java) – National University of Singapore**, Singapore 08/18 – 11/18

- Facilitated discussions on Software Engineering and OOP principles and reviewed students' code

**iOS Development Tutor (Swift) – National University of Singapore**, Singapore 05/18

- Taught iOS development, MVC design pattern, CocoaPods and Firebase Real-Time Database through a 4-hour hands-on coding workshop to NUS Independent Software Development Projects participants

## PROJECTS [more projects at [github.com/CT15](https://github.com/CT15)]

**FoodExchange (React, Node.js, HTML/CSS, NoSQL, Python)** <https://tinyurl.com/foodex>

- Created a platform that connects NUS Hall meal plans subscribers who have spare credits with willing buyers
- The platform consists of a Telegram Bot and a web application that rely on a matching algorithm and real-time database update at the backend to support transactions

**WorkSauce (PostgreSQL, Node.js, HTML / CSS / jQuery)** <https://tinyurl.com/ct15-work>

- Created an online platform that connects freelancers and those who need help with general chores
- The platform supports both normal user accounts and administrator accounts with special privileges

**Bubble Blast Saga (Swift)** <https://tinyurl.com/ct15-bubble>

- Created a mobile bubble shooter game, including the physics engine, level designer and 2D graphics renderer

## HONOURS & AWARDS

- Best Project Award for NUS Hack & Roll (FoodExchange) – among more than 100 projects
- 1<sup>st</sup> Prize for NUS Term Project Showcase – Machine Learning – among 27 Machine Learning projects
- 3<sup>rd</sup> Prize and Most Practical Hack for NUS-IEEE Hackathon – among around 30 projects
- Best Advisor Award for NUS Independent Software Development Projects – among 75 advisors
- Computer Engineering Dean's List – awarded to the top 5% of the cohort
- ASEAN Undergraduate Scholarship (4 years) and MOE School-Based Scholarship (4 years) – awarded to students with strong leadership qualities and outstanding academic results