

# Alistair Ong

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## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE

BComp in Computer Science (Honours)

University Scholars Programme

Expected May 2020 | Singapore

### THE UNIVERSITY OF TEXAS AT AUSTIN

BS in Computer Science (Honors)

Spring 2019 Exchange | Austin, TX

### ANGLO-CHINESE SCHOOL (INDEPENDENT)

International Baccalaureate Grad. Dec 2013 | Singapore

## AWARDS

2018	USP Honour Roll
2012	Standard Chartered Most Creative Apprentice
2010	Edusave Scholarships for Integrated Programme Schools (ESIP)

## SKILLS

### LANGUAGES

Experienced:

Java • C • Javascript

Familiar:

Swift • Python •

HTML & CSS

### FRAMEWORKS AND TOOLS

React • Redux

## COURSEWORK

### UNDERGRADUATE

Advanced Operating Systems

Artificial Intelligence

Algorithms and Complexity

Computer Networks

Software Engineering

## SOCIETIES

NUS Students' Computing Club

NUS University Scholars Club

NUS USP Badminton

NUS USP Floorball

NUS USP Livecore

## EXPERIENCE

### SEA | SOFTWARE ENGINEERING INTERN

May 2019 – Present | Singapore, SG

- Worked on SeaTalk Web in Sea's Lab Division, SeaTalk team.
- Optimizing web and desktop app by caching to prevent excessive re-rendering.
- Created a standalone React-Redux web app for mock events management.

### SPARK SYSTEMS PTE LTD | SOFTWARE ENGINEERING INTERN

May 2018 – Aug 2018 | Singapore, SG

- Created a mailer system with Amazon SES and JavaMail to automate creation and sending of files to both external and internal clients.
- Implemented automation suite for regression tests on GUI using TextFX.

### MINISTRY OF HEALTH | INTERN, NON-COMMUNICABLE DISEASES DIVISION

Jan 2016 – July 2016 | Singapore, SG

- Planning of NurtureSG's data collection phase comprising of focus group discussions
- Researched into healthy programmes, initiatives in other countries to compile good practices to use in Singapore.

## TEACHING EXPERIENCE

### NATIONAL UNIVERSITY OF SINGAPORE

Teaching Assistant, Computer Architecture

Aug 2018 – Dec 2018 | Singapore, SG

## PROJECTS

### EZCARD | SWIFT

- An iOS app for quick exchange and updating of contact information.
- Implemented model and logic for CRUD in app, implemented search functionality.
- Made using **Swift** and **Firebase**.

### AOS | C

- Implemented shell on skeleton microkernel-based Barrelfish OS on an ARMv7 core PandaBoard ES using capabilities for physical and virtual address management, spawning of processes and IPCs.
- Implementation included an RPC handler for message passing of keyboard commands to shell process from main init process.

### THETRACKER | JAVA

- An address book to keep track of friends, students and the modules and events they are in.
- Implemented deep and shallow copies of objects for proper object model update and references.
- Made using **Java** and **JavaFX**.

## SERVICE

2017 Vice Project Director    SoC Sports Camp 2018  
NUS Students' Computing Club