

# Tiffany Sia Chong

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## Education

### National University of Singapore (NUS)

Graduate of Bachelor of Computing (Honours) in Computer Science

Aug 2017 - Jun 2022

Coursework: Theory of Computation, Computer Vision, Information Retrieval, Data Structures & Algorithms

## Technical Skills

**Languages** JavaScript & Typescript, Python, Ruby, C++, Java, SQL, MATLAB

**Frameworks** Node.js, React, Next.js, Ruby on Rails, Phoenix, Ember.js, Phaser.js, Socket.io

**Cloud/DevOps** GCP (BigQuery, Firebase), AWS (EC2, Glue, S3), CI/CD (Travis, Semaphore), Heroku, Netlify

**Concepts** Software Development Life Cycle, Test-Driven Development

## Experience

### Take App ([take.app](#))

Full-stack Software Engineer

May 2023 - Present

- Built core e-commerce features end-to-end, integrated multiple payment methods, implemented delivery scheduling features, and optimized data transfer across services

### Runners Planet ([runnersplanet.app](#))

Software Engineer Intern

May 2021 - Aug 2021

- Developed social media features for sports social network application in React native using technologies like GraphQL, Mapbox and Getstream

### Apple ([apple.com](#))

Full-stack Web Developer Intern

Jul 2020 - Aug 2020

- Developed backend and frontend for web tools used by Apple's reliability engineering team

### National University of Singapore ([nus.edu.sg](#))

Full-stack Software Engineer Intern

May 2020 - Jul 2020

- Co-architected visual novel game engine in Phaser.js, React & Phoenix for website that teaches introductory programming; our game is being used to aid the teaching of CS1101S module to a cohort of about 700 students

### StaffAny Pte Ltd ([staffany.com](#))

Full-stack Software Engineer Intern

Nov 2019 - Jan 2020

- Headed development for new **Web Timeclock** application, written in Node.js + React Native + Typescript, from prototype to implementation to testing, used by thousands of customers nationwide
- Oversaw development progress as **software lead** collaborating with designers, exploring technical constraints, architecting implementation details, and planning deployment

Data Engineer Intern

May 2019 - Oct 2019

- Built **GCP BigQuery warehouse** and data marts to consolidate, store and manage millions of rows of company data, enabling company data analysts (myself included) to query data for SQL dashboards used by all company departments daily
- Automated **data pipeline** to schedule data flow from various cloud platforms into warehouse, via Node.js scripts, saving costs by 5 man-hours per week

### Transcelestial Technologies ([transcelestial.com](#))

Computer Vision Intern

May 2018 - Aug 2018

- Developed **low-latency camera API** in C++, which increased camera frame rate from <100 fps to 2000 fps; my camera API is currently being used in point-and-track laser system for ground-to-satellite communication for superfast internet communication

### Agency for Science and Technology Research, A\*STAR ([a-star.edu.sg](#))

Student Researcher

Jun 2015 - Feb 2016

- Conducted **neuroscience research** to analyse trends in subject's brain electroencephalogram (EEG) activity during affective picture viewing, using MATLAB's signal processing tools

## Projects

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### Game Development

Phaser.js, C++, Flash, Python

Jan 2013 - Present

- Develop **games**, some are deployed to virtual pet site with 100+ daily players where my games are top-played

### Rent Bills

Ruby on Rails

Jan 2019 - Apr 2019

- Developed web app which helps homeowners monitor rent balance of tenants used by a few clients

## Awards

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2013 - 2022

**MOE ASEAN Scholarship Recipient**

2017

**Top 15**, National Olympiad In Informatics Elimination Round, Philippines

2016

**School Top Scorer** at St. Andrews' Junior College, American Math Competition

2014

**1st place**, Design with Graphing Calculator, Singapore

2013

**Silver Medallist**, Singapore Math Olympiad

Tiffany Sia Chong - hello@sciffany.com - References on request

**Availability:** May 2026