

Aaron Choo

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ABOUT ME

COMPUTER SCIENCE UNDERGRADUATE

Highly motivated second year student with an insatiable hunger to learn. Superb contributor and team player in group projects who enjoys collaborating with others. Currently a Systems Engineer Intern at Visa Inc. for summer 2020.

LEADERSHIP

Training Director of NUS Cuesports Club (AY 19/20). Coordinated the training and oversaw the welfare of a club with over 100 members.

TEACHING

Private Tutor (2016 - Present) to 8 past and present secondary school and junior college students, specialising in GCE O/A-Level Maths, Chemistry, and Physics.

TECHNICAL SKILLS

PROGRAMMING

JavaScript[†] • TypeScript[†]
 Java • Python • Dart • C

FRAMEWORKS

Node.js[†] • Vue.js[†] • Flutter

MARKUP

HTML/CSS[†] • \LaTeX • Markdown

TOOLS

Git/GitHub[†] • Firebase Suite[†]
 Google Cloud Platform[†]

PLATFORMS

UNIX[†] • Linux[†] • Windows

[†]indicates working experience

LANGUAGES

NATIVE

English • Mandarin

LEARNING

Korean

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BCOMP (HONOURS) IN COMPUTER SCIENCE

CAP: 4.57/5.00

MAY 2018 - MAY 2022

Relevant Coursework: Computer Networks • Operating Systems

Design & Analysis of Algorithms • Software Engineering • Machine Learning

EXPERIENCE

VISA INC.

Singapore

SYSTEMS ENGINEER INTERN (MIDDLEWARE)

MAY 2020 - PRESENT

- Developed an internal React website, and fixed numerous server side bugs using Express/MongoDB, to automate IBM DataPower Gateway changes
- Implemented Chef recipes via Ruby to automate onboarding of new Hazelcast IMDG applications, and to support Visa's internal cloud solution
- Picked up React, MongoDB, Chef, and Ruby without prior knowledge

QASHIER

Singapore

SOFTWARE ENGINEER INTERN

JUN 2019 - MAY 2020

- Developed a full-stack web application for clients to manage their POS systems using Vue.js, Quasar, Firebase, and Google Cloud Platform (GCP)
- Spearheaded the initial setup of Firebase and the migration from previous database, saving \$4,000/year and increasing database performance by 30x
- Implemented an internal admin Electron app to automate monitoring and other administrative tasks, making onboarding of new clients 8x faster
- Designed APIs via Firebase Functions and TypeScript to support core company services, including sales data analytics, credit card integration etc.
- Self-learnt Vue.js, Node.js, Firebase, and GCP without prior knowledge

NATIONAL UNIVERSITY OF SINGAPORE

Singapore

TEACHING ASSISTANT (CS1101S)

AUG 2019 - DEC 2019

- Prepared and facilitated weekly 2-hour tutorial sessions with 8 students
- Teaching feedback score of 4.7/5.0 against faculty average of 4.1/5.0

PERSONAL PROJECTS

TREE SECURE (MOBILE APP)

[Demo](#) | [Source Code](#)

FLUTTER/DART/FIREBASE

JAN 2020

- A Flutter mobile app to spread the awareness of heritage trees in Singapore
- Developed the core backend services, and integrated the application with Firebase Authentication, Firestore, Google Maps Platform, and Stripe
- Formalised and built in 24 hours by a team of 4 at NUS Hack&Roll 2020

PIXIESPIXEL (GAME)

[Demo](#) | [Source Code](#)

GODOT/GDSCRIPT

MAY 2019 - AUG 2019

- A realtime online multiplayer free-for-all 2D platformer, playable across major operating systems (Windows, MacOS, Linux, and Android)
- Designed and implemented player controls, multiplayer networking, camera systems, various playable characters/maps, mobile support, etc.
- Voted runner up, out of 243 teams, at NUS Orbital 2019

COMPUTER ORGANISATION TOOL (WEBSITE)

[Demo](#) | [Source Code](#)

HTML/CSS/JAVASCRIPT

MAY 2019

- A minimalistic website to aid with learning computer organisation
- Built a boolean truth table generator, IEEE 754 Single-Precision Floating Point converter, number base converter, and MIPS instruction encoder