

Aaron Choo

aaroncql.netlify.app | github.com/AaronCQL | linkedin.com/in/aaroncql
choozy.aaron@gmail.com | +65 88584197

ABOUT ME

COMPUTER SCIENCE UNDERGRADUATE

A highly motivated penultimate year student with an insatiable hunger to learn. Deeply passionate about web development, DevOps methodologies, and cloud computing. Looking for a fulfilling Fall internship (Aug to Dec 2021).

CERTIFICATES & AWARDS

GOOGLE CLOUD CERTIFIED
 Associate Cloud Engineer

NUS ORBITAL 2019
 PixiesPixel: runner-up

TECHNICAL SKILLS

PROGRAMMING LANGUAGES
 JavaScript[†] • TypeScript[†]
 C++ • Java • Ruby[†] • Python

WEB DEVELOPMENT

Vue.js[†] • React.js[†] • Node.js[†]
 Express.js[†] • Next.js • Nuxt.js

CLOUD PLATFORMS

Google Cloud Platform (GCP)[†]
 Firebase[†] • Netlify • Vercel

DEVOPS TOOLS

Git[†] • GitHub[†] • Bitbucket[†]
 Chef[†] • Docker

OPERATING SYSTEMS

UNIX[†] • Linux[†] • Windows

[†]indicates working experience

LEADERSHIP

Training Director of NUS Cuesports Club (AY 19/20). Coordinated the training, and oversaw the welfare of 100+ members.

TEACHING

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

LANGUAGES

NATIVE
 English • Mandarin
 LEARNING
 Korean

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BCOMP (HONOURS) IN COMPUTER SCIENCE

CAP: 4.58/5.00
 MAY 2018 - MAY 2022

Focus areas: Software Engineering • Networking • Computer Security

EXPERIENCE

VISA

Singapore

SYSTEMS ENGINEER INTERN (MIDDLEWARE)

MAY 2020 - JUL 2020

- Developed a MERN stack website (MongoDB/Express/React/Node), and fixed numerous server side bugs to automate DataPower Gateway changes
- Implemented two Chef recipes via Ruby to automate onboarding of new Hazelcast IMDG applications, and to support Visa's internal cloud solution
- Reduced manual labour by 97%, saving an estimated 200 man-hours/year
- Picked up React, MongoDB, Chef, and Ruby without prior knowledge

QASHIER

Singapore

SOFTWARE ENGINEER INTERN (FULL STACK)

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 and migration to GCP from previous cloud provider, which saved \$5,000+/year and increased performance by 30x
- Implemented internal desktop applications 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

TA (CS2103T SOFTWARE ENGINEERING)

AUG 2020 - PRESENT

TA (CS1101S PROGRAMMING METHODOLOGY I)

AUG 2019 - DEC 2019

- Teaching feedback score of 4.7/5.0 against faculty average of 4.1/5.0

PROJECTS

GOOGLE CLOUD STUDENT SPRINT

[Website](#)

GOOGLE CLOUD PLATFORM

MAY 2020 - AUG 2020

- One out of 60 students selected by Google for a Google Cloud mentorship programme to eventually sit for the Associate Cloud Engineer examination
- Successfully achieved the Google Associate Cloud Engineer certificate

ANSWERLEH (FORUM WEBSITE)

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

GCP/MERN/NEXT.JS/TYPESCRIPT

SEP 2020 - NOV 2020

- A proof of concept server-side rendered MERN stack Q&A forum; built using multiple serverless cloud services (GCP/Vercel/GitHub Actions)
- Developed CI/CD pipelines with automated deployments of containers via Google Cloud Build and Docker, and automated tests via GitHub Actions
- Responsible for the initial setup of the backend server, including integration with various GCP products, and design of the MongoDB database schema
- Designed and implemented various UI/UX improvements to the frontend
- Led a team of four through multiple sprints using an agile framework

GITHUB MATH (CHROME EXTENSION)

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

JAVASCRIPT/ROLLUP.JS

JUL 2020 - PRESENT

- A Chrome extension to render \LaTeX math in GitHub Markdown previews
- Used by 100+ active users as tracked by the Chrome Web Store