

Aaron Choo

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ABOUT ME

COMPUTER SCIENCE UNDERGRADUATE

Highly motivated penultimate year student with an insatiable hunger to learn. Deeply passionate about software engineering, especially in web development and cloud computing. Looking for a fulfilling internship for Summer 2021.

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 LANGUAGES

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

WEB DEVELOPMENT

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

CLOUD PLATFORMS

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

OPERATING SYSTEMS

UNIX[†] • Linux[†] • Windows

VERSION CONTROL

Git[†] • GitHub[†] • Bitbucket[†]

[†]indicates working experience

CERTIFICATES & AWARDS

GOOGLE CLOUD CERTIFIED

[Associate Cloud Engineer](#)

NUS ORBITAL 2019

[PixiesPixel: runner-up](#)

LANGUAGES

NATIVE

English • Mandarin

LEARNING

Korean

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BCOMP (HONOURS) IN COMPUTER SCIENCE

Focus areas: Software Engineering • Networking • Programming Languages

CAP: 4.57/5.00

MAY 2018 - MAY 2022

EXPERIENCE

VISA INC.

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 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

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

TA (CS2103T SOFTWARE ENGINEERING)

AUG 2020 - DEC 2020

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)
- Led a team of four through multiple sprints using an agile framework
- Responsible for the initial setup of the backend server, including integration with various GCP products, and design of the MongoDB database schema
- Developed CI/CD pipelines with automated deployments of containers via Google Cloud Build and Docker, and automated tests via GitHub Actions
- Designed and implemented various UI/UX improvements to the frontend

GITHUB MATH (CHROME EXTENSION)

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

JAVASCRIPT/ROLLUP.JS

JUL 2020 - PRESENT

- A Chrome extension to render \LaTeX math in GitHub Markdown previews