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 • Python • Ruby† • C

WEB DEVELOPMENT
Vue† • React† • Quasar†
Nuxt.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

LANGUAGES

NATIVE
English • Mandarin
LEARNING
Korean

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE   CAP: 4.57/5.00
BCOMP (HONOURS) IN COMPUTER SCIENCE   MAY 2018 - MAY 2022
Focus areas: Software Engineering • Computer Networks • Algorithms

EXPERIENCE

VISA INC.   Singapore
SYSTEMS ENGINEER INTERN (MIDDLEWARE)   MAY 2020 - JUL 2020
- Developed a MERN stack website (MongoDB/Express/Node/React), 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   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
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 - PRESENT

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 certification

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

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