

Evan Tay

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CONTACT

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ABOUT ME

Highly-motivated and independent problem-solver passionate about solving meaningful challenges. Self-driven learner who thrives when working alongside cross-functional team members.

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

B.COMP IN COMPUTER SCIENCE

August 2017 to December 2020

cGPA: 4.14/5.00 (2nd Upper Honors)

STANFORD UNIVERSITY

INTERNATIONAL HONORS PROGRAM

June 2019 to August 2019

One of only 10 NUS students selected for this prestigious summer quarter program.

SINGAPORE POLYTECHNIC

DIPLOMA WITH MERIT IN INFORMATION TECHNOLOGY

April 2012 to March 2015

GPA: 3.90/4.00 (Top 10%)

CERTIFICATIONS

AWS Certified Cloud Practitioner

Issued on September 2020

GCP Associate Cloud Engineer

Issued on August 2020

COURSEWORK

Residential College 4 Systems

Dynamics program

Mapping connections with Network Sci.

Eating right(s): The Politics of Food

Specialization in Networking

Computer Networks Practice

Internet Architecture

Specialization in Software Engineering

Software Testing

Software Eng. Principles and Patterns

SKILLS

Programming languages

Fluent: Javascript and Java

Familiar: C, C++, C# and Python

Query languages

MongoDB, PostgreSQL and MySQL

Frameworks

NodeJS, ExpressJS, ReactJS and VueJS

PROFESSIONAL EXPERIENCE

NATIONAL UNIVERSITY OF SINGAPORE

Teaching Assistant | January 2018 to December 2020

- **Computer Networks Practice | August 2020 to December 2020**
Conducting weekly 2-hour labs for 16 students covering common network concepts such as SDN and IoT protocols such as MQTT.
- **Programming Methodology | August 2018 to December 2018**
Conducted weekly 2-hour tutorials on C and Vim for 14 students independently. View my **teaching materials on Github**.
- **Programming Methodology II | January 2018 to May 2018**
Produced lab materials on Java and OOP for over 200 students.

OPEN GOVERNMENT PRODUCTS

Software Engineering Intern | May 2020 to August 2020

- Contributed to [Vault.gov.sg](https://vault.gov.sg), a Whole-of-Government data discovery and sharing platform where public officers can access cross-agency data-sets for data-driven policy-making (i.e. **Data.gov.sg** successor).
- Worked as a Full-stack Software Engineer and Cloud Engineer in a cross-functional team. Collaborated with a Product Manager, a Product Designer and other Software Engineers on a daily basis.
- **Key Software Engineering achievement:** Rewrote and extended the data-set search feature, which is the primary way for all users to discover and access data-sets. Created a much more useful, accessible and accurate search experience.
- **Key Software Testing achievement:** Discovered a vulnerability which exposed confidential data-sets while writing integration tests, and patched it independently afterwards.
- **Key Cloud Engineering achievement:** Set up alarms for the AWS Elastic Beanstalk environment using Cloudwatch and Pub/Sub.

ACTIVITIES & VOLUNTEERING

NUS GOOGLE DEVELOPER STUDENT CLUB

Deputy Head of Technology | November 2019 to June 2020

- Co-lead a team of 8 Tech Associates in organizing 6 workshops.
- Co-organized and emceed for the first-ever Hack for Good hackathon, a Grab-sponsored event in which 28 teams participated.

NUS SKATING CLUB

President | September 2018 to September 2019

- Organized Skate Challenge 2019 in which over 60 university, polytechnic, ITE and primary school students participated.

PROJECT SHOWCASE

DYNALITE FULL-STACK IoT CLOUD-ENABLED WEB APP

R-Pi • Python • COAP • ExpressJS • PostgreSQL • ReactJS • Docker

- Worked on Dyalite, an Internet-of-Things application which performs dynamic visualization of room occupancy.
- Implemented the COAP-HTTP hybrid backend server which reads and stores COAP messages from the Raspberry-Pi in the database, and which also provides a HTTP REST API used by the frontend server to access the readings stored in the database.

AWARDS

- 2019 NUS Sports Club Colours Award for Outstanding Contributions
- 2018 NUS School of Computing's Orbital Honorable Mention (Top 11/211)
- 2013 First runner-up for Isobar Create32 Hackathon SG