

Tiu Wee Han

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SKILLSETS

- **Programming Languages:** JavaScript • TypeScript • Ruby • Java • Python • SQL • HTML • CSS
- **Web Development & DevOps:** React • Redux • Ruby on Rails • PostgreSQL • Material-UI • Nginx • Travis • Google Analytics
- **Other Tools:** Linux • Git • Bash • Docker • Vim • NodeJS • Tableau

EDUCATION

National University of Singapore Aug 2018 – Present
Bachelor of Computing (Computer Science) and Bachelor of Science (Applied Mathematics) – Double Degree Programme

- **Cumulative CAP:** 4.95 / 5.0 – On track to First Class Honours (Highest Distinction)
- **Relevant Distinctions:** Programming Methodology I & II, Discrete Structures, Data Structures & Algorithms

National Junior College Jan 2010 – Dec 2015

- **Honors & Awards:** Top 10% of cohort for 'A' Level Preliminary Examinations, Vice-captain of 'A' Division Tennis Team

WORK EXPERIENCE

Computing for Voluntary Welfare Organizations (CVWO) May 2019 – Sep 2019
Software & DevOps Engineer

- Upgraded and maintained Senior Activity Center & Neighborhood Links (SAC-NL), an internal workflow management system used by 6 VWOs to manage daily operations for 14 elderly care centers around Singapore.
- Deployed 3 new SAC-NL management systems for the Society of Sheng Hong Welfare Services and Care Corner Singapore.
- Developed and deployed from scratch a web portal for ASEAN University Network Quality Assurance (AUN-QA), a regional accreditation body that evaluates and certifies degree programmes for 30 ASEAN member universities.
- Worked with React-Redux-Typescript, Ruby-on-Rails, PostgreSQL, Docker, Nginx and Google Analytics.

Cancer Science Institute (CSI) Jan 2019 – May 2019
Data Analyst

- Profiled multiple high-performance Variant Callers (pipelines that identify potentially cancer-causing genomic mutations) on germline data from The Cancer Genome Atlas (TCGA) utilizing National Supercomputing Centre (NSCC) supercomputers.
- Developed Bash, Python and Java programs to sanitize and extract meaningful results from terabytes of raw genomic data.
- Optimized various genomics workflows that maximize accuracy, speed and cost-effectiveness of analytical algorithms.

Singapore Armed Forces (SAF) Jan 2016 – Nov 2017
Lieutenant

- Commissioned from Officer Cadet School and oversaw manpower, security, operations and logistics at Maju camp, Singapore.
- Completed National Service with recognition from Unit Commanding Officer for outstanding performance and conduct.

PROJECTS

Singapore Management University – Student Managed investment Fund (SMU-SMIF) Website Jul 2019 – Aug 2019

- Built and deployed from scratch the organization website for SMU-SMIF, Singapore's first virtual investment fund professionally managed by undergraduates, including biographies for more than 100 alumni members and a timeline of past achievements.

CO-CURRICULAR ACTIVITIES

Computing for Voluntary Welfare Organizations (CVWO) Sep 2019 – Present
President

- CVWO is an interest group in NUS that develops IT systems for VWOs to more effectively serve the community.
- Appointed as President for the 14th iteration of CVWO to manage live production systems and oversee club publicity efforts.

National University of Singapore (NUS) Aug 2019 – Present
Teaching Assistant

- Teaching Assistant for the CS1101S module in NUS, a rigorous and thorough introduction to Programming Methodology.

NUS Hackers Dec 2018 – Present
Coreteam Member

- Organizer of NUS Hackers' flagship Friday Hacks event, a weekly meetup where speakers are invited to share their hacks.
- Member of the organizing committee for Hack&Roll 2019 & 2020, the largest student-run hackathon in Singapore.