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Experience National University of Singapore

8 Aug 23 - 30 Jun 24 | *Teaching Assistant*
Continues from previous: Teach lectures, tutorials and consultations; Grading; Manage tutors; Mentor new tutors; Develop grading rubrics, exam questions and module tools; Taught 2 Sophomore-level, 8 Junior-level modules with more than 500 teaching/contact hours.

8 Aug 18 - 7 Aug 23 | *Graduate Tutor*
Jul 17 | *Tutor for Intro to Programming Workshop*
Teach freshmen on computational thinking, programming.

Scanteak

Dec 17 - Apr 18 | *Quality Control IT Project*
Studied Scanteak's supply chain, proposed automation to improve QC in procurement.

Church of Singapore (Bukit Timah)

May 16 - Aug 16 | *Software Engineering Intern*
Design and implement Church Management System (CHMS).

Agency for Science, Technology and Research

Dec 15 | *Research Intern – A Cloud-based Collaborative Model Building Platform*
Continues from previous: Design, implement & deploy visualization website, app. protocol.

May 15 - Jun 15 | *Research Intern – Autonomous Machine Learning using HPC Approaches*

Jan 13 - Jul 13 | *Research Intern – Route My Day (Recommendation System)*
Design, implement & deploy visualization website, distributed web crawler & MongoDB cluster.

Singapore Army, Ministry of Defence

NSmen | *Section Commander – First Sergeant (1SG)*

Feb 11 - Dec 12 | *Combat Engineer, Specialist Trainer*
National Service; Managed and trained men/cadets.

Education Doctor of Philosophy (PhD) in Computer Science, National University of Singapore

Aug 18 - Jan 24 | *Focus is in AI / Machine Learning / Optimization - High-Dimensionality and Robustness.*

Bachelor of Computing (Computer Science), National University of Singapore

Aug 13 - Jan 18 | *Graduated With Honours (Highest Distinction) in Computer Science, with Turing Programme*

Student Exchange, USC Viterbi School of Engineering

Jan - May 16 | *Grade Point Average (4.0/4.0); Best student in CSCI 420.*

Achievement Awards

21 Apr 23 | *Full-Time Teaching Assistant Award, National University of Singapore*
Recognition of the high level of commitment to, and achievement of good teaching.

7 Mar 23 | *NS Excellence Award (NSEA), Singapore Army, Ministry of Defence*
Top 10% of performers during ICT and training courses.

- 1 Feb 22 | *Certificate of Accomplishment, National University of Singapore*
Long Service Award; In appreciation of the 5 years of service as a Graduate Tutor.
- 28 Jan 22 | *NS Excellence Award (NSEA), Singapore Army, Ministry of Defence*
Top 10% of performers during ICT and training courses.
- 25 Oct 19 | *NS Excellence Award (NSEA), Singapore Army, Ministry of Defence*
Top 10% of performers during ICT and training courses.
- 21 Jun 18 | *Outstanding Undergraduate Researcher Prize 2017/18, National University of Singapore*
Individual prize; Final Year Project - Feature Subset Selection using Reinforcement Learning.
- 29 Jan 18 | *Certificate of Merit in Algo. & Theory Focus Area, National University of Singapore*
Awarded for meritorious performance in the focus area.
- 15 Jan 18 | *Dean's List Recipient, National University of Singapore*
Named to Dean's List for meritorious performance in S1 AY17/18.
- 9 Dec 16 | *NS Excellence Award (NSEA), Singapore Army, Ministry of Defence*
Top 10% of performers during ICT and training courses.

Scholarships

- 25 Jul 12 | *A*STAR Undergraduate Scholarship, Agency for Science, Technology and Research*
Prestigious scholarship awarded to budding scientists.

Research Peer-Reviewed Conference Publications

- Jul 22 | *Adversarial Attacks on Gaussian Process Bandits*
Eric Han, Jonathan Scarlett
Proceedings of the 39th International Conference on Machine Learning
- Feb 21 | *High-Dimensional Bayesian Optimization via Tree-Structured Additive Models*
Eric Han, Ishank Arora, Jonathan Scarlett
Proceedings of the 35th AAAI Conference on Artificial Intelligence

Service Service to Research Community

- 23 Feb 23 | *Student Volunteer for 34th International Conference on Algorithmic Learning Theory.*
- 20 Jan 23 | *Session Chair for Workshop on Information Theory and Data Science Workshop.*
- 11 Apr 22 | *Reviewer for 39th International Conference on Machine Learning.*

Service to National University of Singapore

- 8 Apr 22 | *Admission reviewer for Master of Computing applicants (Aug 2022).*
- 29 Sept 21 | *Featured in a PhD programme marketing video.*
- 3 - 5 Aug 21 | *Program Committee for NUS Computing Research Week 2021.*
Moderator of the technical panel discussion titled 'Heterogeneity in Federated Learning'.
- 26 Apr 21 | *Admission reviewer for Master of Computing applicants (August 2021).*
- 18 Oct 20 | *Admission reviewer for Master of Computing applicants (Jan 2021).*

Service to Agency for Science, Technology and Research

- Jun 19 | *Guidance to junior scholar – sharing of experiences.*

4 Dec 15 | *Invited Speaker for A*STAR Scholarships Seminar for Undergraduate Studies.*

14 Mar 15 | *Volunteer at A*STAR booth at NUS Open Day 2015 – Outreach and promotion.*

Service to Pioneer Junior College

May - Jun 15 | *Teaching and sharing on ‘Computational Thinking’ to junior college students.*

Service to Impact Life Church

Mar 18 - Dec 23 | *Head Of Information Technology – Lead a team of >15 volunteers.*
Responsible for IT infra., purchasing, software development of Church applications, etc.

Oct 17 - Dec 23 | *Cell Group Leader – Build strong communities and healthy Christians.*

Jan 12 - Dec 18 | *Tutor - Teach tuition classes.*
GCE ‘A’ lvl: Math, Physics & Economics; GCE ‘O’ lvl: Principles of Accounting, Physics.

Teaching CS2109s – Introduction to AI and Machine Learning (Undergrad. 4 credits)

AY23/24 S2 | *Teach tutorials; Ongoing Semester.*

AY23/24 S1 | *Teach tutorials, grading, designing exam questions.*

CS3243 – Introduction to Artificial Intelligence (Undergrad. 4 credits)

AY22/23 S1 | *Teach tutorials, review of learning materials, designing exam questions.*

AY21/22 S2 | *Teach tutorials, grading, organize tutors for assignment grading, designing assignment grading rubrics, designing exam questions.*

CS3217 – Software Engineering on Modern App. Platforms (Undergrad. 4 credits)

AY21/22 S2 | *Teach tutorials.*

CS3203 – Software Engineering Project (Undergrad. 8 credits)

AY21/22 S1 | *Support lectures, teach consultations, organize tutors, grading, improve grading rubrics and improve testing tools.*

AY20/21 S2 | *Support lectures, teach consultations, organize tutors, grading, maintain testing tools.*

AY19/20 S2 | *Support lectures, teach consultations and develop testing tools.*

AY18/19 S2 | *Teach tutorials, consultations and support lectures.*

AY18/19 S1 | *Teach tutorials and consultations.*

CS2030/CS2030S – Programming Methodology II (Undergrad. 4 credits)

AY20/21 S1 | *Support labs and develop sub-flavor of Fedora Linux for virtual exam needs due to COVID-19.*

Competency Computing Platforms

- > | *Programming Languages*
Python (also sci. pkgs., ie. SciPy), C++, Java, HTML/CSS, Java/Typescript, Bash.
- > | *Databases*
Firebase, SQL, MongoDB.
- > | *Typesetting / Presentation Tools*
LaTeX, Markdown, Microsoft Office, Google Workspace.

- > | *Tools / Platforms*
Git, Mlflow, Plotly, Matplotlib, Slurm, Jira, Google Cloud Platform.
- > | *Operating Systems*
Linux (Fedora; daily driver), *nix administration, Windows, macOS.

Language Proficiency

- > | *English (Native) and Chinese (Intermediate).*