

Theodore Leebrant

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EDUCATION

National University of Singapore 2023 **B. Comp. (Hons)**, Computer Science (GPA 4.66/5.00)
2023 **B. Sc. with Merit**, Mathematics (GPA 4.54/5.00)

RESEARCH EXPERIENCE

National University of Singapore 2023 Bachelor of Computing Dissertation
Improving Rust Performance by Type-Directed Refactoring
Supervisor: Assoc. Prof. Ilya Sergey

TEACHING EXPERIENCE

National University of Singapore
Full-time Teaching Assistant, 2023 - now

Course	Title	Semesters taught
CS3210	Parallel Programming	AY24/25 Sem 1 - AY25/26 Sem 2 (×4)
CS3211	Concurrent Programming	AY25/26 Sem 2
CS2107	Computer Security	AY24/25 Sem 2
CS2100	Computer Organization	AY23/24 Sem 2 - AY24/25 Sem 1 (×2)
CS2030	Programming Methodology II	AY23/24 Sem 2
CS1231S	Discrete Structures	AY25/26 Sem 1

National University of Singapore
Undergraduate Teaching Assistant, 2020 - 2023

Course	Title	Semesters taught
CS3210	Parallel Programming	AY23/24 Sem 1
CS3243	Artificial Intelligence	AY20/21 Sem 1
CS1231S	Discrete Structures	AY20/21 Sem 1-2, AY22/23 Sem 1 (×3)
CS1101S	Programming Methodology I	AY20/21 Sem 1

INDUSTRY EXPERIENCE

Garena

Software Engineering Intern (Server), Aug 2021 - Dec 2021

- Responsible for the development of internal DevOps tools for the Garena Open Platform Team, who provides essential services for game services managed by the company.
- Improved the responsiveness of the DevOps alert management system by creating a quick-glance dashboard for statuses of services within Garena for fast preliminary diagnostics and migrating email services to a web application.

Shopee

Data Engineer Intern, May 2021 - Jul 2021

- Developed and improved the metadata database as part of Data Warehouse team.
- Crafted a dashboard in Apache Zeppelin to monitor the tables queried by the metadata database.
- Created a custom parser for queries using Java, Scala, and Python to extract parts of the PrestoSQL queries handled by the metadata database, and built a metadata analysis framework which can be applied to improve over 10 internal data marts spanning more than 100 databases.

HONOURS AND AWARDS

- Full-time Teaching Assistant Award, National University of Singapore, 2026
- President's Honour Roll, NUS College (University Scholars Programme), 2024
- Honour List of Student Tutors, NUS School of Computing, 2023 and 2021
- Bronze Medal, Problematic Mathematics Competition, NUS Mathematics Society, 2022
- Honour Roll, University Scholars' Programme, National University of Singapore, 2020
- ASEAN Undergraduate Merit Scholarship, National University of Singapore, 2019-2024

SERVICE AND ORGANIZATIONAL ACTIVITIES

National University of Singapore Student Union

Executive Committee, University Scholars Club / NUS College Club, 2020-2022 and 2023-2024

- As the *Deputy Director of Logistics* (2023-2024), facilitated the usage of the Student Union's amenities and facilities, including but not limited to the loan of items and transportation.
- As the *Director of Research* (2021-2022), organized and analyzed the university-wide survey held annually by the Student Union; managed and directed 3 other students under this role.
- As the *Deputy Welfare Secretary* (2020-2021), handled and facilitated negotiations regarding campus infrastructure and transportation between students, university, and vendors.

University Scholars Club / NUS College Club

Interest Group Leaderships, 2019-2024

- As the *Captain of Tabletop Club* (2021-2024), managed and maintained an inventory of boardgames, handled events for the NUS College community, and assisted orientation activities.
- As an *Executive Committee Member of Gender Collective* (2020-2021), organized activities for the club and handled publicity materials for both internal and outreach events.
- As the *Captain of USReversi* (2019-2020), organized regular training for the faculty's Reversi team. Continued as a member from 2020-2024, with several medals won in interfaculty competitions.