

# Yee-Jian Tan

+33 7 52 04 32 55 | [tanyeejian@gmail.com](mailto:tanyeejian@gmail.com) | [yeejian.dev](http://yeejian.dev)

## EDUCATION

### École Polytechnique

Master of Theoretical Computer Science (Master Parisien de Recherche en Informatique)

Paris, France

Aug 2023 - Mar 2025

### National University of Singapore

Bachelors of Computing with Honours (Computer Science), Distinction (4.48/5)

Singapore

Aug 2018 - May 2023

- Specialization: Algorithms and Computation

Bachelors of Science (Mathematics), Highest Distinction (4.50/5)

- Specialization: Abstract Algebra, Logic

## EXPERIENCE

### Research Intern

Gallinette, Inria

May 2022 - Aug 2022

Nantes, France

- Advisor: Nicolas Tabareau
- Formalized Coq's module system in the MetaCoq project

### Intern, Machine Learning Engineer

Gojek Singapore

May 2020 - Sep 2020

Singapore

- Jointly designed and packaged a Google BigQuery to Apache Kafka data ingestion tool
- Increased data ingestion rate from ~10k to > 3000k rows/second using Google Cloud Dataflow

### Software Engineering Intern

Computing for Voluntary Welfare Organisations (CVWO), NUS

May 2019 - Aug 2019

Singapore

- Streamlined and digitized volunteering workflow for more than 100 students every year by developing and maintaining a Volunteer Management System for the GIC Sparks and Smiles program.
- For more than 6000 clients and 100 staff, reduced operating costs and increased the accuracy of data capture by maintaining a Case Management System for the Counseling and Co-parenting Centers by CareCorner.

## PUBLICATIONS

### A stepper for a JavaScript Sublanguage

Joint work with Martin Henz, Thomas Tan, Zachary Chua, Peter Jung, Xinyi Zhang,

Jingjing Zhao

SPLASH-E 2021

## AWARDS

Senior Honour Roll, NUS University Scholars Programme

2022 - 2023

Honour Roll, NUS University Scholars Programme

2020 - 2021

Honour List of Student Tutors, NUS School of Computing

2019 - 2020

## SCHOLARSHIPS AND GRANTS

Masters Mobility Programme, French Embassy to Malaysia

2023 - 2024

1-year grant covering tuition fees and living expenses in France.

Dr. Goh Keng Swee Scholarship, Association of Banks in Singapore

2018 - 2023

Full scholarship for undergraduates selected from 15 Asia-Pacific economies.

## TEACHING EXPERIENCE

Programming Methodology I, Teaching Assistant, NUS School of Computing

Fall 2022

Programming Methodology I, Teaching Assistant, NUS School of Computing

Summer 2021

Programming Methodology I, Teaching Assistant, NUS School of Computing

Fall 2020

Programming Methodology I, Teaching Assistant, NUS School of Computing

Fall 2019

Programming Methodology I (S), Teaching Assistant, NUS School of Computing

Fall 2019

## THESES

Formalizing Coq Modules in the MetaCoq Project, Bachelor's Thesis

2023

Advisors: Nicolas Tabareau, Martin Henz, Yue Yang. Grade: A