

# Yee-Jian Tan

+33 7 52 04 32 55 | [tanyeejian@gmail.com](mailto:tanyeejian@gmail.com) | [linkedin.com/in/yeejian-tan](https://www.linkedin.com/in/yeejian-tan) | <https://yeejian.dev>

## EDUCATION

### École Polytechnique

Paris, France

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

Aug 2023 - Mar 2025

### National University of Singapore

Singapore

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

Aug 2018 - May 2023

- *Specialization: Algorithms and Computation*

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

## EXPERIENCE

### Research Intern

May 2022 - Aug 2022

*Gallinette, INRIA*

*Nantes, France*

- Worked on formalizing Coq's module system in the MetaCoq project, proving fundamental typing properties and correctness of the Coq implementation in Coq itself. Project is continued as my bachelor's thesis (in progress, defending in Apr 2023).
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

### Information Technology Support Specialist

Sep. 2018 - Present

*Southwestern University*

*Georgetown, TX*

- Communicate with managers to set up campus computers used on campus
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

### Artificial Intelligence Research Assistant

May 2019 - July 2019

*Southwestern University*

*Georgetown, TX*

- Explored methods to generate video game dungeons based off of *The Legend of Zelda*
- Developed a game in Java to test the generated dungeons
- Contributed 50K+ lines of code to an established codebase via Git
- Conducted a human subject study to determine which video game dungeon generation technique is enjoyable
- Wrote an 8-page paper and gave multiple presentations on-campus
- Presented virtually to the World Conference on Computational Intelligence

## PROJECTS

### Gitlytics | Python, Flask, React, PostgreSQL, Docker

June 2020 - Present

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

### Simple Paintball | Spigot API, Java, Maven, TravisCI, Git

May 2018 - May 2020

- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib