

Louis Teng

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EDUCATION

National University of Singapore

Aug 2024 – Present

Bachelor of Computing in Computer Science BComp(CS)

Second Major In Quantitative Finance

WORK EXPERIENCE

Private Tutor | Self-Employed

Feb 2024 – Present

- Tutored 5+ students in Mathematics and Science, raising average grades by 1–2 bands.
- Designed personalised lesson plans and progress-tracking exercises to meet individual needs.
- Strengthened communication and mentorship skills by simplifying complex concepts into structured explanations.
- Cultivated adaptability and patience when addressing diverse learning styles and academic challenges.

PROJECTS

PSA Code Sprint - PowerBI Insights Assistant | *Python, Streamlit, JavaScript, Express*

Oct 2025 – Oct 2025

- Designed and implemented a full-stack system integrating Power BI dashboards with a Streamlit conversational AI interface, enabling real-time data insights through natural language queries.
- Developed a robust Node.js backend that exports Power BI visual data (CSV) and sends context-aware prompts to Azure OpenAI for summarization and interpretation.
- Created an interactive Streamlit UI with embedded Power BI dashboards and dynamic chat components to display contextual insights and performance analytics.

Jason Chatbot | *Java, JavaFX, Gradle, JUnit*

Aug 2025 – Sep 2025

- Designed and built a task-tracking chatbot in Java, applying object-oriented design principles (OOP).
- Implemented a graphical user interface (GUI) using JavaFX with styled dialog boxes and dynamic layouts.
- Integrated persistent file storage for automatic save/load of tasks between sessions.
- Wrote JUnit 5 unit tests to ensure correctness and maintainability.
- Automated builds and packaging into executable JARs with Gradle.

Orbital | *Javascript, React, MongoDB, HTML/CSS*

May 2025 – Aug 2025

- Designed and implemented RESTful APIs for authentication, course management, and data handling.
- Built scalable backend services using MongoDB, Express.js, and Node.js, integrated with React frontend.
- Collaborated in a team environment, applying Git, Agile workflow and code reviews.

DSTA BrainHack | *React Native, JavaScript, Firebase*

May 2025 – Jul 2025

- Developed an Android Task Manager application using React Native, focusing on responsive UI and smooth user experience.
- Implemented core features such as task creation, completion tracking, and persistent local storage.
- Streamlined development and testing with Expo, leveraging Git for version control and iterative improvements.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML, CSS, Typescript

Frameworks: Express.js, JavaFX, Gradle, Streamlit, Next.js

Libraries: React

Developer Tools: Git, Visual Studio, IntelliJ

Data & Cloud Tools: Power BI, Azure OpenAI, REST APIs

CO-CURRICULAR ACTIVITIES AND VOLUNTEERING EXPERIENCE

OCIP Laos - King Edward VII Hall, NUS

May 2025 – Jun 2025

- Led community outreach activities, teaching English to local students.
- Contributed to school refurbishment projects, enhancing learning environments.
- Demonstrated adaptability, cultural sensitivity, and strong teamwork in a cross-cultural setting.

ADDITIONAL INFORMATION

Languages : English (native), Chinese(native), Japanese (obtained N3 Qualification)

Interests: Cycling, travelling, and drawing

