

# HENG YEE CHONG, FABIAN

Singapore • [in/fabianheng](https://in/fabianheng) • [fabian.heng@icloud.com](mailto:fabian.heng@icloud.com)  
[fabianheng.me](https://fabianheng.me)

## Education

---

Aug 2023 – Present

**National University of Singapore (NUS) • Bachelor of Computing in Computer Science • Singapore**

- President of NUS Korean Cultural Interest Group
- Programmes Committee of NUS SOC Freshmen Social Camp
- Volunteer Management Committee of NUS Project Action Speaks Louder
- On track to First Class Honors

Apr 2018 – Mar 2021

**Singapore Polytechnic (SP) • Diploma in Infocomm Security Management • Singapore**

- Programmes Committee of SP Sign Language Club
- Student Ambassador of SP School of Computing Club
- Volunteer of SP Overseas Learning Express (in Yogyakarta)
- GPA: 3.888 / 4.0

Jan 2014 – Nov 2017

**School of Science and Technology (SST) • Singapore**

- Sub-committee of SST Student EXCO Club
- Talent of SST Inc, Talent Development Program
- Member of the SST Floorball Club

## Experience

---

Aug 2023 – Jul 2024

**Full-Time • Software Engineer • Ultraflow Engineering Private Limited, Singapore**

- Led web development projects, designing and building full-stack websites that enhanced user experience and increased customer engagement, boosting sales by 300% and client retention rates by 150%.
- Optimized the company's network configuration by resolving technical issues and maintaining stable operations of Wi-Fi, network connectivity, and internal file management systems, reducing costs by 40%.
- Managed the invoice and quotation file systems to ensure accurate and timely financial processing, doubling the company's financial efficiency.

Sep 2021 – Jul 2023

**Full-Time • Signal Support System Specialist • MINDEF, Singapore Armed Forces, Singapore**

- Gained advanced networking and cybersecurity skills as a Signal Specialist.
- Developed expertise in managing personnel effectively.
- Acquired experience in financial administration processes.

Apr 2021 – Aug 2021

**Part-Time • Administrative Assistant • Healthway Medical Group, Singapore**

- Managed and maintained digital records for seniors and patients' vaccination data, ensuring accuracy and compliance with health regulations.
- Streamlined registration, tracking, and admission processes for vulnerable populations during the COVID-19 pandemic, utilizing data management tools to improve operational efficiency and supporting the development of digital solutions to enhance healthcare administration.
- Promoted efficiency by integrating database management and registration systems.
- Developed expertise in safeguarding seniors with severe vaccine reactions.

Mar 2020 – Aug 2020

**Internship • Telco Software Engineer • Trustwave, Singapore Telecommunications Limited, Singapore**

- Processed and analysed large-scale datasets to extract meaningful insights.
- Developed and optimized reusable Web Threat Dashboard components using React, ensuring efficient and scalable front-end solutions.
- Designed a visually appealing website, integrating live data into an intuitive and user-friendly dashboard.
- Customized and refined various widgets to meet specific client requirements and enhance user experience.
- Managed administrative tasks, coordinated meetings with fellow interns, and delivered presentations to highlight progress and achievements.

# Projects

Feb 2025 – May 2025

## ClientNest [\[link\]](#)

**SOFTWARE ENGINEERING • TECH STACK:** [JAVA](#) | [JAVA FX](#) | [UML](#) | [CSS](#) | [INTELLIJ](#) | [GRADLE](#)

- Developed a desktop-based Client Relationship Management (CRM) application as part of a NUS Software Engineering module to help young financial advisors manage client information efficiently.
- Designed key features for streamlined contact management, appointment tracking, and client data organization tailored to financial advisory workflows.
- Collaborated in a team to implement modular architecture, enhancing maintainability and scalability of the application.
- Prioritised user experience through intuitive UI/UX design and responsive interface built with JavaFX.

May 2024 – Aug 2024

## Trackspence [\[link\]](#)

**NUS ORBITAL 2024 • TECH STACK:** [TYPESCRIPT](#) | [JAVASCRIPT](#) | [HTML](#) | [CSS](#) | [MONGODB](#) | [GEMINI API](#) | [NETLIFY](#) | [DAVINCI RESOLVE](#)

- Developed Trackspence, an all-in-one expense tracking web application to categorize expenses, set budgets, and provide real-time updates on spending habits.
- Created a robust friend system that includes adding/removing friends, splitting bills, and sending notifications. Enabled multi-currency support through API integration.
- Implemented enhanced user authentication with email verification and encrypted data storage to ensure privacy protection.
- Designed tools for investment and budget management to track portfolios, monitor financial performance, and visualize budget progress.
- Utilized the MERN stack (MongoDB, Express.js, React.js, Node.js) for scalable development and integrated APIs (AlphaVantage, FXratesAPI, Gemini API, Mailgun) for real-time data and communication.
- Ensured cross-platform accessibility with a focus on intuitive design and comprehensive functionality across devices.

Jan 2024

## Scissors, Paper, Showdown! [\[link\]](#)

**HACK & ROLL HACKATHON 2024 • TECH STACK:** [JAVA](#)

- Developed a Java-based simulation of Scissors, Paper, Stone, featuring diverse bots with unique strategies for competitive play.
- Engineered each bot to leverage advanced tactics and strategies to gain an edge over opponents.
- Conducted over 100,000 simulated rounds to rigorously evaluate and identify the most effective strategies.
- Analysed results to determine optimal approaches and refine bot performance.
- Documented findings and insights to support strategic decision-making and enhance future bot designs.

Aug 2023 – Dec 2023

## Ultraflow Engineering Website [\[link\]](#)

**TECHNICAL MANAGER, ULTRAFLOW ENGINEERING • TECH STACK:** [HTML](#) | [CSS](#) | [JAVASCRIPT](#) | [NETLIFY](#)

- Recreated a modern, responsive website showcasing the company's portfolio, significantly enhancing its online presence.
- Deployed the website using Netlify and GitHub's native hosting services for reliable and efficient performance.
- Improved the website's design, resulting in increased traffic, user retention, and overall productivity for the company.

**Oct 2020 - Feb 2021**

### **Digital Twinning & Automated Pentesting (DTAP) [\[link\]](#)**

**SP FINAL YEAR PROJECT • TECH STACK:** [PYTHON](#) | [POWERSHELL](#) | [PREMIER PRO](#) | [AMAZON WEB SERVICES](#)

- Designed and developed an automated tool to streamline the deployment of target machines to the cloud and facilitate remote penetration testing.
- Leveraged Amazon Web Services (AWS) to integrate digital twin machines with AWS Cloud servers, enabling off-site penetration testing capabilities.
- Engineered a script using Python and PowerShell to automate deployment and testing processes, ensuring efficiency and reliability.
- Conducted advanced visualization and documentation of testing results.
- Coordinated cloud infrastructure and remote access features to support comprehensive, on-demand security assessments.
- Achieved 2<sup>nd</sup> place in the school's AY2020/2021 Semester 2 FYP Showcase.

**Nov 2020 - Feb 2021**

### **FishMon [\[link\]](#)**

**INTERNET OF THINGS • TECH STACK:** [PYTHON](#) | [C++](#) | [HTML](#) | [JAVASCRIPT](#) | [FLASK](#) | [ARDUINO](#) | [AWS KINESIS](#) | [AWS SUMERIAN](#) | [PREMIER PRO](#)

- Engineered FishMon, a comprehensive electrical sensor tool designed to monitor and analyse the conditions of a fish tank.
- Integrated cameras, actuators, and sensors to collect real-time data, which is then presented through a user-friendly data dashboard.
- Developed features to display current tank status, water level, fish movement and species tracking, water pollution levels, and more.
- Utilized Amazon Web Services to host the web application, with Kinesis and Sumerian for enhanced functionality and data processing.

**Mar 2020 - Aug 2020**

### **Web Threat Dashboard**

**SOFTWARE ENGINEER, SINGTEL • TECH STACK:** [REACTJS](#) | [SQL](#) | [FIGMA](#) | [MONGODB](#)

- Engaged in a dynamic project focused on extracting valuable insights from extensive datasets.
- Crafted efficient front-end components with React to build scalable and responsive user interfaces.
- Designed intuitive dashboards that seamlessly integrate live data for an enhanced user experience.
- Tailored features to meet specific client needs, optimizing functionality and user satisfaction.

- Handled project coordination, including organizing meetings and delivering key presentations to showcase progress and milestones.

Jan 2020 - Mar 2020

### **SP SHARE** [\[link\]](#)

**MOBILE APPLICATIONS • TECH STACK:** [JAVA](#) | [MYSQL](#) | [GOOGLE FIREBASE](#) | [ANDROID STUDIO](#)

- Developed a fully deployable Android application enabling users to share and manage personal notes on a collaborative platform.
- Implemented a backend database using Google Firebase to capture and store user-generated notes and images via form submissions.
- Incorporated a search feature to filter and retrieve notes based on keywords.
- Integrated location tracking and a customizable theme changer to enhance user experience and functionality.

June 2019 - Aug 2019

### **Game Robo** [\[link\]](#)

**ENTERPRISE APPLICATION DEVELOPMENT • TECH STACK:** [CSS](#) | [HTML](#) | [JAVASCRIPT](#) | [MYSQL](#)

- Developed a website simulating a game store using MySQL, JavaScript, and HTML.
- Engineered the backend with MySQL database tables to manage game data and interactions.
- Enabled users to add new game details and display them dynamically on the website through query input.

Mar 2019 - Apr 2019

### **Sparklz** [\[link\]](#)

**WEB CLIENT DEVELOPMENT • TECH STACK:** [CSS](#) | [HTML](#) | [JAVASCRIPT](#)

- Created a responsive website simulating an online store specializing in necklaces and earrings.
- Implemented a fully functional shopping cart and integrated backend support for payment processing and checkout.

# Organizations

---

May 2024 – May 2025

## **President • Korean Cultural Interest Group**

- Led and managed a CCA with over 300 active members, ensuring smooth execution of all club events and activities.
- Fostered strong skills in people management, task delegation, and financial management, including the proposal and processing of financial reimbursements.
- Drafted proposals and coordinated closely with vendors, suppliers, and club advisors to facilitate successful event planning and execution.
- Handled venue bookings, managed equipment maintenance, and ensured all logistical aspects were efficiently managed.
- Delivered a public speech to welcome new members to the club, demonstrating leadership and communication skills.
- Organized and hosted a variety of engaging events that catered to the interests of members, enhancing club participation and involvement.
- Took initiative to perform on stage, showcasing versatility and dedication to the club's activities.

Jan 2023 – Jul 2023

## **Volunteer Management Committee • NUS Project Action Speaks Louder**

- Managed the recruitment and interview process for new volunteers, conducting interviews and assessing candidates for project suitability.
- Oversaw administrative tasks and database management, ensuring accurate and efficient documentation.
- Developed proposals and safety management plans, including comprehensive safety forms.
- Served as a Safety Manager, ensuring the well-being of participants during events and maintaining a safe environment.
- Organized and hosted events for the d/Deaf community, actively participating in workshops and activities to enhance communication skills and deepen understanding of d/Deaf culture.

Nov 2022 – Jun 2023

## **Programmes Committee • NUS SOC Freshmen Social Camp**

- Drafted proposals for camp activities, including program flow, game selection, and point systems for scoring and awarding prizes.
- Ensured seamless execution of the program, overseeing the smooth operation of events.
- Took on the role of game master, managing time effectively to ensure the successful progression of multiple groups during station activities.

Apr 2019 – Mar 2021

## **Programmes Committee • SP Sign Language Club**

- Organized and coordinated events and camps for club members, ensuring engaging and meaningful experiences.
- Outlined comprehensive operation plans, handling event logistics, objectives, and timelines to ensure seamless execution.

- Facilitated regular meetings for club members, fostering a collaborative environment and effective communication.
- Led interviews and selection processes for potential committee members, identifying and onboarding individuals who align with the club's mission and values.
- Coordinated and participated in community service initiatives, promoting social responsibility and community engagement among members.
- Instructed and taught members basic sign language, enhancing communication skills and fostering inclusivity within the club.

**Apr 2018 – Apr 2020**

**Student Ambassador • SP School of Computing Club**

- Facilitated Capture the Flag introduction games during the SP School of Computing Open House, engaging both students and parents in interactive learning experiences.
- Served as the Safety Officer, ensuring the well-being of all participants and maintaining a safe environment throughout the event.

**Jan 2015 – Nov 2017**

**Sub-Committee • SST Student EXCO Club**

- Served as a Student Counsellor, providing guidance and support to fellow students, fostering a positive and inclusive school environment.
- Acted as a Student Patrol Officer, actively ensuring the safety and well-being of students by monitoring school premises and addressing any safety concerns.

## Honours & Certifications

---

Jan 2025

**IWC20400 Principals of Accounting (A+)**

*ISSUED BY KOREA UNIVERSITY*

Sep 2024

**NUS CSC Colours Award 2024 (Merit)**

*ISSUED BY NUS COMMUNITY SERVICE CLUB*

Aug 2024

**NUS Orbital - Apollo 11 (Advanced)**

*ISSUED BY NUS SCHOOL OF COMPUTING*

Mar 2022

**Advanced Certificate in Infocomm Technology**

*ISSUED BY SIGNAL INSTITUTE (SAF)*

Apr 2020

**SP's CCA Gold with Honors**

*ISSUED BY SINGAPORE POLYTECHNIC*

Mar 2020

**Singtel Cyber Security Cadet Scholarship 2019**

*ISSUED BY SINGTEL*

Nov 2019

**Student Volunteer Recognition Programme 2019**

*ISSUED BY AISP*

Sep 2019

**Organizational Systems Security Analyst**

*ISSUED BY THINKSECURE*

Mar 2019

**Youth Cyber Exploration Program Facilitator**

*ISSUED BY SP SCHOOL OF COMPUTING*