

XAVIER KOO

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EDUCATION

Singapore Management University (SMU)

Bachelor of Science (Information Systems)

Singapore
2021 - 2025

- Double Major in Digitalisation & Cloud Solutions (Software Design & Development) and Artificial Intelligence
- Coursework: Data Management, Web Application Development, Computational Thinking, Interaction Design & Prototyping

TECHNICAL SKILLS

Languages: Python | PHP | HTML | CSS | JavaScript | SQL

Frameworks/Libraries: ReactJS | VueJS | NodeJS | ExpressJS | Jest | Bootstrap

Databases/Tools: MySQL | MongoDB | Git | GitHub | Heroku | Netlify | ESLint | Figma

PROJECTS

Support Local - Full-stack Web Application

<https://github.com/xavierkoo/support-local-backend>

- Developed a full-stack web application serving as an eCommerce platform for local businesses.
- Created the frontend in collaboration with a team, utilizing HTML, CSS, Bootstrap, VueJS, SASS, GSAP, and cloud deployment on Netlify.
- Constructed a functional backend independently with NodeJS, ExpressJS, and MongoDB. Jest was used to write integration tests, and Heroku was used for cloud deployment.

Monster Slayer Browser Game

<https://github.com/xavierkoo/monster-slayer>

- Deployed a browser-based game on Netlify utilizing HTML, CSS, Bootstrap and VueJS.
- Demonstrates Bootstrap and general Vue.js concepts such as Vue instance, methods, data, and computing.

Full Stack Open

<https://github.com/xavierkoo/fullstackopen>

- Built full stack single page applications such as a phonebook, weather app, bloglist with ReactJS for the front-end, implementing REST APIs built with Node.js leveraging the Express Library for the back-end.
- Deployed application with Heroku where application data is stored on a MongoDB database using Mongoose. ESLint is utilised to define coding standards.
- Implemented user token based authentication and authorization functionality with bcrypt and jsonwebtoken.

EXPERIENCE

Republic of Singapore Air Force

Pilot Trainee

Singapore/Australia
2018 - 2021

- Represented Singapore as a pilot-in-training overseas in a fast-paced, high-stress environment alongside the Royal Australian Air Force for 7 months and attained 44 flying hours flying two aircraft, BAE Systems CT4/B and Pilatus PC-21.
- Maintained smooth daily operations of squadron. Ensured all ops duties are carried out efficiently and accurately.

Bountie Technologies

Business Development & Community Management Executive

Singapore
2017 - 2018

- Identified and pitched to more than 10 sales leads for Bountie's cryptocurrency ICO, securing 50% of sales leads.
- Created and oversee the growth of Bountie's 25,000 strong Telegram group and 3000 followers Instagram account.

CO-CURRICULAR ACTIVITIES

SMU VIVACE CCA Fair

Organising Committee Internal Communications Associate

2022 - 2022

- Organised VIVACE for 4500 participants and facilitated communications between the committee and 153 CCAs.

Kidleidoscope 2021

- Conducted a Community Service Project working with underprivileged children from Bethel Community Services, CDAC, and Yishun Student Care Centre through activities such as games and arts & crafts.

Supply Chain Challenge 2017

Team Leader

2017 - 2017

- Led a team for an inter POL-ITE competition with over 80 teams participating and was placed 3rd overall by SLA.
- Devised an implementable solution to a logistical problem for a bottle water company with an innovative use of software and technology to reduce delivery lead times and increase delivery accuracy by nearly 20%.

CERTIFICATIONS

- University of Helsinki Full Stack Open - Full Stack Web Development.
- Heicoders Academy AI200: Applied Machine Learning.