XAVIER KOO

+65 9670 8336 | xavier.koo.2021@scis.smu.edu.sg | https://xavier-koo.netlify.app/

EDUCATION

Singapore Management University (SMU) **Singapore**
Bachelor of Science (Information Systems) **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-frontend
- Developed a full-stack web application serving as an eCommerce platform for local businesses.
- Created the frontend in collaboration with a team with HTML, CSS, Bootstrap, VueJS, and cloud deployment on Netlify.
- Constructed the backend using NodeJS and ExpressJS to design RESTful APIs, cloud deployment on Heroku, and utilized MongoDB for data storage. Integration tests were written using Jest, and static code analysis was performed using ESLint.

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.

Portfolio Website
https://github.com/xavierkoo/portfolio-website
- Developed a website with HTML, CSS, Bootstrap, and ReactJS, deployed with Netlify, to showcase skills and projects.

Full Stack Open
https://github.com/xavierkoo/fullstackopen
- Built full stack single page applications with ReactJS for the front end, including a phonebook, weather app, and blog list, as well as REST APIs built with NodeJS leveraging the Express Library for the back-end.
- Deployed the application with Heroku, with the application data stored on a MongoDB database using Mongoose. ESLint is used to define coding standards.
- Implemented user token based authentication and authorization functionality with bcrypt and jsonwebtoken.

EXPERIENCE

Republic of Singapore Air Force **Singapore/Australia**
Pilot Trainee **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 **Singapore**
Business Development & Community Management Executive **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 through activities such as games and 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.