ONG Yu Jian Xavier

hello@xavieroyj.dev | (+65) 69618172 | https://www.linkedin.com/in/xavieroyj/ | https://xavieroyj.dev

PROFESSIONAL SUMMARY

I'm an enthusiastic computer science student with a passion for technology, innovation, and entrepreneurship. In my free time, I experiment with new and upcoming web technologies. I also volunteer for the Red Cross youth chapter events whenever I have the time.

EXPERIENCE

NPU Physical Implementation Intern   Sep. 2024 – Present
Mediatek

- Collaborated with a colleague to enhance an existing script by adding new fields, resulting in improved report accuracy and expanded data insights.
- Debug existing scripts to find out why certain fields were omitted from the report
- Developed a user-friendly interface for viewing reports in HTML format, enhancing accessibility and enabling basic filtering options for improved data analysis.
- Acquired a comprehensive understanding of chip design principles, enhancing the ability to contribute effectively to future design projects.

Technical Co-Founder   Aug. 2023 – Feb. 2025
Shiftbus

- Structured the database to facilitate online bookings, enhancing customer access and increasing potential sales opportunities.
- Developed a responsive user interface design that enhanced user engagement and improved accessibility across devices
- Facilitated effective communication with industry leaders, enhancing collaboration and fostering strategic partnerships.
- Pitched project to NYP JumpStart and awarded a grant of $10000

Adhoc Software Developer   Oct. 2023 – Nov. 2023
OrangeKloud

- Converted Figma designs into React Bootstrap code, enhancing the user interface and improving development efficiency.
- Developed a React Bootstrap interface that closely matched the Figma-designed UI, enhancing user experience and ensuring design consistency.
- Modified CSS to override specific Bootstrap styles, enhancing alignment with company branding and improving visual consistency across web applications.

Software Developer Intern   May. 2019 – Aug. 2019
PSA Singapore

- Designed and implemented a silent installation method for software on new devices, resulting in streamlined deployment and enhanced user experience through a user-friendly drag-and-drop application for camera placement.
- Researched and implemented innovative methods for background software installation on new devices, resulting in improved deployment efficiency and reduced setup time.
- Developed interactive visualizations for camera positioning using JavaScript and HTML, enhancing user experience and interface functionality.
- Improved the camera placement interface, eliminating the need for manual coordinate input by colleagues, which increased efficiency and reduced errors in setup.

PROJECTS

FlashLearn
https://flashlearn-nine.vercel.app/

- Utilized Gemini to generate AI content, enhancing content creation efficiency and improving overall output quality.
- Uploaded files and converted them into flashcards, enhancing study efficiency and retention of information.
- Engineered an application using Next.js App Router, enhancing page load speed and improving user navigation experience.

Shiftbus
https://shiftbus.com
- Developed and launched the production website for https://shiftbus.com, enhancing online visibility and user engagement.
- Developed and implemented a comprehensive database design, resulting in improved data retrieval efficiency and enhanced data integrity.
- Developed and implemented user interface designs, resulting in improved user engagement and satisfaction.
- Pitched project to NYP Jumpstart and achieved a grant of $10000
- Facilitated effective communication with industry leaders, enhancing collaboration and fostering strategic partnerships.

Personal Portfolio
https://xavieroyj.dev
- Designed and hosted a website using Astro.js, resulting in improved loading times and enhanced user experience.
- Launched a personal website at https://xavieroj.dev, showcasing development skills and enhancing online presence.

LabEquip Mobile Application
- Developed an educational application that identifies lab equipment and displays relevant information, enabling students to utilize lab equipment safely and effectively.
- Utilized the Python framework to implement the YOLOv8 object detection model for training and detecting lab equipment in photographs.
- Created an application in Kotlin utilizing a Room database for data storage, enhancing data management efficiency and reliability.

EDUCATION

Singapore Institute of Technology
Jan. 2022 – Jan. 2025

BSc (Hons) in Computing Science

I was nominated as the finalist for VMWare Tanzu award in 2024 for my project StoryCrafter which is an educational project to aid kids in rural area. I also particupated in the NYP Jumpstart program for my co-founded company Shiftbus and was able to achieve a grant of $10000. Concurrently, I am also the vice president of the Red Cross Youth Chapter

Nanyang Polytechnic
Jan. 2017 – Jan. 2020

Diploma in Infocomm & Security, Information Technology

Participated in PSA CodeSandBox in 2019 and achieved finalist

SKILLS

Technical Skills
Next.JS App Router, React, Typescript, Kotlin, Python, C#, SQL, MySQL, PostgreSQL, NoSQL, Artificial Intelligence, PyTorch, Tensorflow, Web Scraping, Beautiful Soup, CSS, TailwindCSS, Bootstrap, Git, Object Oriented Programming, Java