Sebastian Yii

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EDUCATION

Singapore University of Technology and Design Singapore, Singapore
Bachelor of Engineering (Computer Science and Design) *Sep. 2023 – Apr. 2027 (projected)*

EXPERIENCE

Blockchain Security Researcher Aug 2023 – Present
Ottersec *Remote, Singapore*
- Performed security audits on Ethereum Smart Contracts and Aptos Ecosystem, identifying and resolving vulnerabilities.

Software Developer Intern Apr. 2023 – Aug 2023
Switcheo Labs *Singapore, Singapore*
- Developed features for Switcheo's flagship product, Demex, decentralized exchange using React and Material-UI, improving platform's functionality and user experience.
- Develop the front-end of a lending/borrowing protocol using React.js and Material-UI.
- Developed a decentralized exchange (DEX) application for a client, integrating cross-chain bridging capabilities and enabling seamless deployment of ERC20 tokens directly from the platform.

Cyber Security Specialist Feb. 2021 - Apr. 2023
Cybersecurity Agency of Singapore (CSA) *Singapore, Singapore*
- Assisted in the investigation of cybercrime incidents by conducting digital forensic analysis of electronic devices, networks, and systems.
- Utilised various forensic tools and techniques to analyse data and recover evidence from digital devices such as computers, and hard drives.
- Created internal tools to aid in the investigation and analysis of cybercrime incidents.

Freelance Web Developer Jan. 2020 - Jan. 2023
Self-Employed *Remote*
- Engaged with designers to improve clients products and keep on track with the plan, and deadlines, improving efficiency by 12%.
- Developed a custom table booking system for a restaurant group, contributing to a 50% increase in reservations.
- Created extensive documentations for clients to manage their own websites and digital assets, reducing miscommunications and hiccups.

PROJECTS

EurekaPad | *Next.js* 2024
- Designed and developed a dynamic note-taking web application tailored for STEM students, enabling streamlined learning and problem-solving.
- Implemented key features including:
  * **Runnable Code Blocks:** Embedded IDE functionality for executing code snippets directly within notes.
  * **Interactive Graphs:** Tools for creating and manipulating STEM-focused visualizations.
- Secured funding from the **Baby Shark Fund**, an innovation initiative by SUTD, through a compelling pitch presentation.
- Utilized **Next.js** and modern front-end frameworks to ensure seamless user experience and high performance.

Zeno | *Node.js* 2022
- Developed a suite of Node.js middlewares, effectively safeguarding against SQL injection, DoS, SSRF, and IDOR vulnerabilities.

BuTTer | *Next.js, Solidity* Finalist at hacksingapore 2022, Blockchain Track
- Utilised IMDA Tradetrust frontend repository and modified to support the Avalanche Blockchain Network.
- Designed and Developed an OCR app in Next.js to convert PDFs to valid JSON, streamlining the document digitization process for blockchain verification.

Charlotte | *Javascript, React.js, Flask*   2021
- Created a Web Accessibility Chrome Extension, facilitating an improved browsing experience for users with disabilities.
- Led and worked with 4 team members to clinch the winner of the *Most Impactful award at the Tech For Good Festival 2021.*

Social Engineering Experts CTF Team   2021 – Present
- Co-founder of the Social Engineering Experts cybersecurity capture-the-flag (CTF) team.
- Global Champions at the PricewaterhouseCoopers Capture-the-Flag
- Designed and authored innovative blockchain challenges for the inaugural SEETF in 2022.

TECHNICAL SKILLS

Languages: Python, SQL (Postgres), JavaScript, HTML/CSS, Solidity
Frameworks: React, Node.js, Next.js, Material-UI
Developer Tools: Git, Docker, VS Code