Tan Shao Chong

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EDUCATION

Nanyang Technological University (NTU), Singapore   **Aug 2022 – Present**
Dual Degree:
Bachelor of Engineering Science (Computer Science) & Master of Science in Technology Management
- Enrolled in the Renaissance Engineering Programme (REP), NTU's flagship engineering programme.
- Awarded the Renaissance Engineering Programme Scholarship for holistic excellence.

Hwa Chong Institution (HCI), Singapore   **Jan 2018 – Dec 2019**
Singapore-Cambridge GCE 'A' Levels
- Awarded the Hwa Chong Diploma With Distinction as well as the Outstanding Student Award for outstanding conduct, service and achievements.

SKILLS

- **Programming Languages:** JavaScript, HTML, CSS, MySQL, Python
- **Frameworks & Libraries:** React.js, React Native, Next.js, Node.js, Express.js, MongoDB, D3.js

INTERNSHIP EXPERIENCE

Defence Science & Technology Agency, Singapore   **Feb 2022 – Jul 2022**
Software Engineering Intern, Fleet Management System Team
- Explored enterprise adoption of Qlik Sense to enhance data visualisation and analytics capabilities.
- Developed custom visualisation extensions in Qlik Sense using nebula.js and D3.js.
- Integrated Qlik Sense into dynamic web applications using React.js, nebula.js and enigma.js.
- Designed custom themes in Qlik Sense to streamline UI for analytical dashboards using CSS and JSON.

COMPETITIONS

Shopee Product & Design Challenge 2022   **Sep 2022 – Oct 2022**
Champion
- Topped 600+ teams and 2000+ participants (undergraduates and working professionals).
- Proposed the best enhancements to Shopee's ShopeePay Near Me platform.
- Conducted competitive analysis and primary research to identify potential business model improvements.
- Designed unique UI/UX improvements to drive high user awareness, adoption and retention using Figma.

PERSONAL PROJECTS

Portfolio Website – Next.js   shaochong.dev
- Built a personal portfolio website to document my programming journey and display my projects.

To-Do-List Mobile App – React Native   play.google.com/store/apps/details?id=com.toDoList
- Implemented persistent local data storage and a simple productivity tracker.

Full-Stack Image Sharing App – React.js, Node.js, Express.js, MongoDB   one-word-captures.netlify.app/posts
- Implemented local authentication, a simple search engine and full CRUD capability through REST APIs.

LEADERSHIP EXPERIENCE

NTU REP: Makers' Lab   **Aug 2022 – Present**
Project Lead
- Led a team of makers to implement a surveillance and remote monitoring system for the lab's 3D printers using OctoPrint and Raspberry Pis.
- Developed a real-time updating system through Telegram Bots using Telegram APIs.

HCI: Taekwondo Club   **May 2018 – May 2019**
Executive Committee Member (Training Lead)
- Managed training sessions and competition preparation for the school's Taekwondo Club.
- Led the cohort which won 2 National Interschool Championship Titles during my term.

VOLUNTEER EXPERIENCE

NTU REP: REACH, building platforms for social good   **Aug 2022 – Present**
Student Developer
- Collaborated with a local school to build an application encouraging healthy living habits among students.
- Developed a habit tracker mobile app for students using React Native, Redux and Firebase.
- Developed a management system for teachers to monitor students using Next.js and Firebase.