Tan Shao Chong

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EDUCATION

Nanyang Technological University (NTU), Singapore   **Aug 2022 – Present**
Bachelor of Engineering Science (Computer Science)
Master of Science in Technology Management
CGPA: 4.93 / 5.00
- Enrolled in the Renaissance Engineering Programme (REP), NTU's flagship engineering programme.
- Awarded the Renaissance Engineering Programme Scholarship for holistic excellence.

SKILLS

Programming Languages: TypeScript, JavaScript, HTML, CSS, MySQL, Python
Frameworks & Libraries: React.js, React Native, Next.js, Node.js, Express.js, Serverless, AWS, Terraform

WORK EXPERIENCE

Asurion, Singapore   **May 2023 – Present**
Full Stack Engineer Intern, AI ML Engineering Team
- Built and maintained web applications across multiple domains (AI chatbot, live object detection, face recognition, speech recognition, sentiment analysis) using Typescript, React.js and Next.js.
- Developed internal APIs using Node.js, Serverless, AWS Lambda, AWS API Gateway.
- Innovated custom AI-powered Chatbots using OpenAI Chat Completions and OpenAI Whisper
- Initiated and led the refactoring of the team's codebase for greater performance and readability.
- Provisioned, deployed and integrated AWS cloud resources using Terraform.
- Integrated real-time machine learning inference endpoints using AWS Sagemaker.

Asurion, Singapore   **Jan 2023 – Apr 2023**
UI/UX Engineer Intern, AI ML Engineering Team
- Developed web-based product solutions, using TypeScript and React.js.
- Integrated computer vision solutions for face, object and sentiment detection, using OpenCV and AWS.
- Developing an intelligent chatbot for customer service and product sales, using OpenAI APIs and ChatGPT.
- Managed the UI/UX, wire-framing and design of multiple products, using Figma.

Defence Science & Technology Agency, Singapore   **Feb 2022 – Jul 2022**
Software Engineer 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 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.

Singapore International Airlines AppChallenge 2023   **Jun 2023 – Jul 2023**
2nd Runner-Up
- Topped 287 teams and 611 participants (students from tertiary institutions).
- Proposed a product powered by Generative Artificial Intelligence to enhance travel discovery, planning and booking.
- Developed a technical proof-of-concept using Next.js and OpenAI.   https://sia-concierge.vercel.app/

PROJECTS

Lifeline   https://github.com/ackselz/Lifeline
- Developed a mobile application to empower individuals and communities with the ability to save lives through core functionalities: linking with community responders and providing quality first aid education.
- Built using Flutter, Google Maps API and Firebase.

LEADERSHIP EXPERIENCE

NTU REP: REACH, building platforms for social good   **Aug 2022 – Present**
Project Lead
- Collaborated with a local school to build an application encouraging healthy living habits among students.
- Led the development of a habit tracker mobile app for students using React Native, Redux and Firebase.

- Led the development of a management system for teachers to monitor students using Next.js and Firebase.