

# 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 highly coveted Renaissance Engineering Programme Scholarship for holistic excellence.

## SKILLS

**Programming Languages:** TypeScript, JavaScript, HTML, CSS, MySQL, Python, Java, C

**Frameworks & Libraries:** React.js, React Native, Next.js, Node.js, Express.js, Serverless, AWS, Terraform

## WORK EXPERIENCE

**Asurion, Singapore** **Jan 2023 – Jul 2023**  
**Full Stack Engineer Intern, AI ML Engineering Team**

- Built and maintained internal web-based AI tools across multiple domains using Typescript, React.js and Next.js, which enabled rapid iteration and testing of proprietary ML models and reduced turnaround time for product demos.
- Optimised internal APIs using Node.js, Serverless, AWS Lambda, AWS API Gateway by reducing bottlenecks and parallelising external calls, which reduced API response times by 50%.
- Provisioned, deployed and integrated AWS cloud resources using Terraform which made infrastructure changes more reliable, secure, and easier with a single source of truth.
- Integrated real-time machine learning inference endpoints using AWS Sagemaker.
- Initiated refactoring of codebase and created technical documentation which ensured greater readability for future developers.

**Defence Science & Technology Agency, Singapore** **Feb 2022 – Jul 2022**  
**Software Engineer Intern, Fleet Management System Team**

- Developed custom visualisation extensions in Qlik Sense using nebula.js and D3.js which simplified tracking of operational fleet status for fleet managers.
- Integrated Qlik Sense into web applications using React.js, nebula.js and enigma.js.
- Designed custom themes in Qlik Sense using CSS and JSON, which streamlined and standardised UI for analytical dashboards.

## AWARDS & ACCOLADES

**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 and presented a product powered by generative AI to enhance travel discovery, planning and booking.
- Created a technical proof-of-concept with Next.js and OpenAI. <https://sia-concierge.vercel.app/>

## PROJECTS

**SG Tech Internships** <https://techinternships.kxrt.me/>

- Lead frontend developer for the platform which seeks to improve accessibility to internship opportunities in tech for undergraduate students across Singapore.
- Platform has reached over 60,000 page views and has 200+ GitHub Stars.

**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.
- Submitted for Google's 2023 Solutions Challenge, built with Flutter, Google Maps API and Firebase.

## LEADERSHIP EXPERIENCE

**NTU Google Student Developer Club** **Sep 2023 – Present**  
**Technical Lead**

- Overseeing more than 100 student developers to manage web projects targeted at benefitting the wider school community.
- Collaborating with non-profit organisations to provide volunteer technical consulting and web development services.