

Kat Yong Jie



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Education

Singapore University of Technology and Design (SUTD)

Sep '20 to May '24

- Bachelor of Engineering (Computer Science and Design) with a Minor in Artificial Intelligence (AI)
- Focus Track: Visual Analytics and Computing
- CGPA 4.15/5 (Honours with Distinction)

Nanyang Polytechnic (NYP)

Apr '15 to Apr '18

- Diploma with Merit in Multimedia and Infocomm Technology
- Specialisation: Information Systems (Web and Mobile Development)
- CGPA 3.96/4 (Cisco Systems (USA) Silver Medal, awarded to 2nd top performing student in cohort)

Work Experiences

Singapore Airlines (SIA) Digital Innovation Lab

Aug '22 to Jan '23

Internship, Full Stack Web Developer

- Spearheaded a digital innovation idea with research that has gained approval from senior executives.
- Developed and implemented a production-level canteen management solution prototype in a team that has been used by hundreds of staff.
- Contributed to the running of events that advocated for digital innovation across SIA and its partners.

Singapore Armed Forces Command, Control, Communications and Computers (SAF C4) Command

Aug '18 to Aug '20

Full-time National Service, Mobile App Developer and Facilitator

- Developed cross-platform mobile applications using the OutSystems low-code platform that is implemented in various events and divisions in the SAF.
- Advocated mobile app workflows throughout the SAF, improving efficiency & reducing need for manpower.
- Facilitated workshops that provide first-hand experience to personnel developing mobile apps.

Oversea-Chinese Banking Corporation, Limited (OCBC)

Sep '17 to Feb '18

Internship, API Developer

- Developed a Web Application Programming Interface (API) authentication interface that is deployed onto the Connect2OCBC web service.
- Designed interactive dashboard modules for an API health checker app to easily make sense of its data.
- Implemented web testing processes onto their APIs, ensuring maximum reliability on its services.

Academic Projects

Singapore University of Technology and Design (SUTD)

Sep '23 to Apr '24

AI-Driven Adaptive Learning Platform, Capstone Project

- Developed a production-level learning management system that integrates an established educational research methodology with a Large Language Model and Neural Networks.
- Performed User Acceptance Testing based on guidelines designed for Human-Computer Interactions (HCI).

Honors & Awards

Singapore University of Technology and Design

Sep '21 to Nov '21

Outstanding Undegraduate Teaching Assistant (UTA) for Fall '21

- Assisted faculty in conducting lessons in Rhinoceros Computer-Aided Design (CAD) software and Python programming.
- Mentored and formed a deeper bond with juniors by giving them advice on the module and their education.

Government Technology Agency of Singapore (GovTech)

Feb '17 to Nov '17

Inaugural National Data Viz Video Challenge

- Provided creative expertise for my team during production with the necessary software and skills.
- Assisted with translating researched data into animated infographics.
- Produced a short animation that won 1st place amongst 12 finalists.

Nanyang Polytechnic

Jul '15 to Jul '16

WorldSkills Singapore, Web Design Competitor

- Trained in the Web Design skill with other competitors from NYP to learn the necessary web design and development techniques required for the competition.
- Competed at the national level in WorldSkills Singapore 2016 to win 1st runner up amongst 16 finalists from various institutions.

Technical Skills

(Able to learn any related software, frameworks, and libraries as required)

- **Full Stack Web Development:** Amazon Web Services, Google Cloud Platform, ReactJS, Firebase, MongoDB, MySQL, and Typescript.
- **Multimedia Production:** Adobe After Effects, Illustrator, Photoshop, Affinity Designer, Final Cut Pro.
- **Software Development:** Python, Java, and C#.