Cheng Yi Xing

https://yixing.info/

Email : royalcheng99@gmail.com

Mobile : +65 97943280

EDUCATION

- **Singapore Institute of Technology (SIT)** — Penultimate Year
  Bachelor's of Science in Applied Artificial Intelligence; GPA: 4.21/5.0 — *Aug 2022 – Expected May 2025*
  - **Awards**: SIT Scholarship (Full ride), awarded to just 13 students among 3000+ first-year candidates

EXPERIENCE

- **Singapore Institute of Technology** — Singapore
  Software Engineer — *Apr 2023 - Dec 2023*
  - **Data Collection**: Developed an application to collect audio and annotation data from **1000+ students**, achieving a **95% reduction in human error.** *(ReactJS, Firebase, MongoDB, ExpressJS)*
  - **Automatic Speech Recognition**: Led the development of a multi-lingual audio-to-text transcription API, resulting in **reduced transcription time by 90%** *(Whisper, FastAPI, Pytorch)*
  - **API Testing**: Conducted rigorous testing of the API, ensuring stability and resilience across diverse use cases.

- **Mofunland** — Singapore
  Full Stack Developer — *Nov 2022 - Jan 2023*
  - **Web Development**: Developed a full-stack website for cruise event, incorporating payments through Stripe
  - **Sales Success**: Achieved an outcome with all tickets sold out and **total sales exceeding $100,000.**

- **Redfluencer** — Singapore
  Software Engineering Intern — *Apr 2022 - Nov 2022*
  - **Mobile App Development**: Delivered features bi-weekly resulting in a **20% increase in user engagement.**
  - **Bug Resolution**: Identified and addressed bugs, leading to a **30% reduction in app crashes** and a notable **15% improvement in user satisfaction scores.** *(React Native, Firebase)*

- **OrangeTee & Tie** — Singapore
  Data Analyst Intern — *Mar 2018 - Oct 2018*
  - **Data Visualization**: Implemented analytics solution (Tableau) to monitor and improve sales agent performance.

AWARDS

- **Top 3: SIT x Target Media x People's Association - BeyondTheScreen** — Nov 2023
  Created interfaces that display personalised content based on registered bluetooth devices nearby, with a CMS

- **2nd Place: SIT x Govtech - Hackrift** — Aug 2022
  Designed a mobile app aimed at helping elderly connect with each other through similar interest and location

- **1st Place: IMDA - Tableau Data Stories of Singapore Competition** — Nov 2018
  Designed a dashboard to educate waste generation in Singapore and presented to panel of judges (Tableau)

PROJECTS

- **Integrated Team Project (ITP)**: Collaborated with SMRT to leverage advanced data analytics techniques to gain deeper insights into train ridership patterns
- **InClubSIT**: Centralised platform for SIT students to find and join clubs, and get notified of upcoming events
- **MonoSeg**: Optimized semantic segmentation on cell data, conducted accurate evaluations with advanced metrics
- **EuroSat**: Leveraged both RGB and hyperspectral data, integrating predictions into a custom neural network
- **Rizzipe**: Application to recommend recipes based on ingredients identified by custom object detection model
- **Hoobi**: Digital loyalty program web app for small businesses, with dashboard to track customer analytics
- **Diario**: Mental health journaling application with AI diary summarization and sentiment analysis

SKILLS AND TECHNOLOGIES

- **Languages and Libraries:**: Python (+ Pytorch, Flask, FastAPI, Pyspark, Selenium, Pandas, NumPy), JavaScript (+ React, React Native, Next.js, Express.JS),Typescript, PHP, Java, C, SQL, NoSQL
- **Technologies:**: Firebase, Supabase, Docker, Pinecone, Redis