Cheng Yi Xing

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EDUCATION

- **Singapore Institute of Technology (SIT)** — Penultimate Year
  Bachelor's of Science in Applied Artificial Intelligence; GPA: 4.21 — *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.**
  - **Automatic Speech Recognition**: Led the development of a multi-lingual audio-to-text transcription API, resulting in **reduced transcription time by 90%**
  - **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.**
- **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
- **3rd Place: PMI (Project Management Institution) - SG Student Competition** — Oct 2023
  Devised project management plan for implementing gen AI solutions in customer service and order processing
- **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

- **Digiace Official Website**: Lead conversion website optimized for performance for Digiace, a Creative Agency
- **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, Pytorch), JavaScript (+ React, React Native, Next.js, Express.JS),Typescript, PHP, Java, C, SQL, NoSQL
- **Technologies:**: Firebase, Supabase, Docker, Pinecone, Redis