

Kevin Pek Yue Ting

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EDUCATION

National University of Singapore (NUS) Aug 2021 – May 2025 (Expected)

- B.Sc Data Science and Analytics (Hons), Second Major in Computer Science
- Cumulative Average Point: 4.53/5.00
- Achieved Dean's List in AY22/23 Semester 1.

Stanford University – International Honours Program Jun 2023 – Aug 2023

- One of 3 selected applicants to be awarded the SG-US Summer Exchange Scholarship Programme.
- Courses Taken: Design and Analysis of Algorithms, Artificial Intelligence: Principles and Techniques

Hwa Chong Institution Jan 2013 – Dec 2018

- H2: Physics (A), Mathematics (A), Chemistry (A), Economics (B)

SKILLS

- Programming Languages: Python, TypeScript, Julia, Java, R, C#, C, MIPS Assembly
- Web Technologies: React, NextJs, Express, FastAPI, Flask, Spring Boot
- Other Technologies: Git, Docker, AWS EC2, GCP Cloud Run

WORK EXPERIENCE

Global Innovation Catalyst, Palo Alto, CA – Intern (Part Time) Jul 2023 – Aug 2023

- Data analysis and visualisation in Python (pandas, plotly).
- Development of MVP for startup using Typescript and the OpenAI API.

NUS IORA/NCS, Singapore – Research Assistant (Part Time) Jun 2023 – Dec 2023 (Expected)

- Collaborate with various researchers as part of AISG's 100E project on Smart Data Center management for NCS.
- Data analysis and visualisation in Python (pandas, matplotlib, plotly) on Azure Synapse.

NUS IORA/Singapore Airlines, Singapore – Full Stack Developer (Part Time) Aug 2022 – May 2023

- Built web applications for a learning platform with content and user management features using React (Material UI) and Express, utilising MySQL and AWS S3 cloud storage.
- Implemented machine learning algorithms in Python (contextual bandits, sklearn, pandas) for multi-armed bandit problem.
- Deployed algorithm as an API using the FastAPI framework for use with other applications.
- Containerised and deployed applications on AWS EC2 using Docker Compose.

Idemia, Singapore – Full Stack Intern May 2022 – Aug 2022

- Collaborated in a team of 3 to develop a prototype application for microservice orchestration in Java, using Apache Camel and Spring Boot.
- Wrote integration and unit tests for applications using the Testcontainers library and Junit5 framework.
- Optimised inefficient code in several microservice applications.

NUS IORA, Singapore – Research Assistant (Part Time) Apr 2022 – May 2022

- Refactored python scripts implementing Linear UCB algorithm into an interactive web application with user interface using Flask and deployed it on Heroku.

NUS Department of Biomedical Engineering – Game Developer (Part Time) Feb 2022 – May 2022

- Developed interactive quiz application for tablet devices that automatically logs telemetry data to Google Spreadsheets using the Unity Game Engine.

DSTA, Singapore – Modelling and Simulations Intern**Mar 2021 – Jun 2021**

- Built high fidelity simulation environments on Unity for Reinforcement Learning projects and produced detailed documentation in Markdown.
- Utilised the ML Agents package on the Unity Engine to train and package Deep Learning models for 2 Reinforcement Learning projects.

EXTRACURRICULAR ACTIVITIES

NUS Google Developer Student Club – Head of Technology**Jun 2023 – Current**

- Led development for both frontend and backend teams.
- Communicate with stakeholders for feedback and product requirements.

NUS Google Developer Student Club – Software Engineer**Aug 2022 – May 2023**

- Created a campaign management system for internal users to publicise and edit campaigns, and to process donations from various payment providers using React (Material UI), Nextjs, MongoDB and Express.
- Wrote unit and integration tests for backend server in Cypress, and setup automated CICD pipeline on GCP using Cloud Run and Cloud Build.

42nd NUS Rovers Adventure Club – Honorary General Secretary**Oct 2021 – Oct 2022**

- Demonstrated leadership by helping local and overseas expeditions for trekking and cycling events.
- Exemplified organisational skills by managing and maintaining the membership database of the club events.

42nd NUS Science Club Alumni Relations Committee – Marketing Executive**Oct 2021 – Oct 2022**

- Reached out to various organisations and liaised with them for sponsorships or partnerships, to support the events organised by the Alumni Relations Committee.
- Designed promotional graphics and prospectus for potential sponsors and partners for events organised by the Alumni Relations Committee.

NUS Student Union IT Committee, CharITeach – Volunteer Tutor**Mar 2022**

- Taught underprivileged students basic coding skills through the process of learning how to make a game using the Scratch programming language.
- Took initiative to tailor concepts taught for children to help them learn better.

PROJECTS

Monday.com AI App Hackathon

- Integrated Monday's API and design system with Telegram's Bot API to develop an app that generates text content using Langchain and manages scheduled posts.

Social Travel App

- Developed a mobile travel application in React Native and ExpressJs. The app provides a way for users to share itineraries with each other, as well as initiate meetups and activities.

Document Semantic Search

- Created a question answering web interface for uploading and parsing common document formats for school notes using Python (Gradio, Haystack, Sentence Transformers).