

# PANG HWEE MIN, JUNE

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## EDUCATION

### BSc (Hons) in Computer Science

SIM GE - Goldsmiths, University of London

Apr 2022 - Mar 2024

### BEng (Hons) in Systems Engineering (ElectroMechanical Systems)

SIT - DigiPen Institute of Technology

Sept 2020 - May 2021

(Completed 2 trimesters)

### Diploma in Business Applications

Republic Polytechnic

Apr. 2017 - Mar 2020

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Python, C++, SQL

**Frameworks:** React, React Native, Node.js, p5.js, TensorFlow, ASP.NET

**Others:** Git, Jupyter Notebook, Firebase, Redux, LaTeX, Markdown

## WORK EXPERIENCE

### Application Support Engineer, Intern

Mar 2019 - Aug 2019

IHiS (Integrated Health Information Systems) (now Synapse)

- Collaborated in a project team for implementing Real-Time Location System within the National Centre for Infectious Diseases (NCID).
- Conducted System integration tests to identify functional issues in the system.
- Performed on-site inspections, verifying the accuracy of receivers, floorplan zones, and Wi-Fi synchronisation.
- Liaised with external vendor and reported key developments to the project manager, ensuring smooth project progression.
- Assisted in on-site troubleshooting and issue tracking during the system's go-live phase.

## PROJECTS

### Taskery Mobile App | React Native, Expo, Firebase, Redux

Mar 2024, BSc FYP

- A task manager mobile app that integrates personal task management with social interaction features.
- Redux is used for state management, with Redux Thunk to handle async actions like fetching data from Firestore.
- Key features: Authentication using Firebase Auth, CRUD of tasks, blog-like community timeline
- GitHub Repository: [github.com/jxne00/Taskery](https://github.com/jxne00/Taskery)

### Deep Learning on Sign Language MNIST | Tensorflow, Keras, Dense Neural Network

Feb 2024

- Experimented with different Dense Neural Network configurations such as the number of layers and neurons.
- Applied different Regularization techniques like early stopping, dropout layers, L1 and L2 regularization.
- Conducted hyperparameter tuning using a custom grid search implementation to find the optimal hyperparameters.
- Read here: [jxne00.github.io/sign-language-mnist/](https://jxne00.github.io/sign-language-mnist/)

### **WatchJourney Mobile App** | *React Native, Expo, Firebase*

Sept 2023

- A mobile app for monitoring and managing TV series and movie watchlists.
- Tv show and movie contents are fetched from TMDB's API.
- Key features: Authentication using Firebase, search functionality, personal watchlist curation, sharing of watchlists, dark/light theme toggle.
- GitHub Repository: [github.com/jxne00/WatchJourney](https://github.com/jxne00/WatchJourney)

### **Exploratory data analysis** | *Pandas, Matplotlib, Webscraping*

Dec 2022

- An in-depth analysis to explore the correlation between university rankings and employment outcomes of fresh graduates from Singapore's local universities between year 2015 to 2021.
- Applied thorough data cleaning and pre-processing techniques on the "Graduate Employment Survey", an open dataset sourced from Data.gov.sg.
- Conducted web scraping (ethically) to gather university ranking data from well-known ranking systems.
- Created visualizations through bar graphs, line graphs, and scatter plots to show the relationships within the data.
- Read here: [jxne00.github.io/uni-rank-analysis/uni-rank-analysis](https://jxne00.github.io/uni-rank-analysis/uni-rank-analysis)

### **Audio Mix DJ Player** | *C++ JUCE Framework*

July 2022

- A music player that allows loading and playing of tracks, with the ability to adjust its playback speed, volume, and position.
- Other features: Crossfading of two tracks, playlist component with search functionality, and adding to queue.
- Demonstrates object-oriented programming concepts.
- GitHub Repository: [github.com/jxne00/AudioMix](https://github.com/jxne00/AudioMix)

### **Food Ordering System** | *ASP.NET, SQL, HTML*

2019, Poly FYP

- A food ordering system with CRUD functionalities for user accounts, food menu items, customer's orders, Promotions.
- As the leader of my four-member team, I coordinated weekly meetings, supported team members with their tasks, and managed the integration of individual contributions.
- My contributions: Write SQL statements to create the database structure based on ERD. Authentication of users, CRUD of customer accounts, generate charts to show customer's order patterns.
- GitHub Repository: [github.com/jxne00/JEPS-food-ordering-system](https://github.com/jxne00/JEPS-food-ordering-system)

## **ACADEMIC ACHIEVEMENTS**

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### **Certificates**

- AI4I® – Literacy in AI (Certificate of Completion)
- AWS Academy Cloud Foundations
- SAP University Alliances (Certificate of Participation)

### **Awards**

- Director's Roll of Honour | Republic Polytechnic (2020)
- Edusave Certificate of Academic Achievement (2019 & 2020)