

PANG HWEE MIN, JUNE

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Portfolio: <https://jxne.netlify.app/> | GitHub: <https://github.com/jxne00>

EDUCATION

BSc (Hons) in Computer Science

SIM GE - Goldsmiths, University of London

Apr 2022 - May 2024

Grade: First Class Honours

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 Synapxe)

- 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.

ACADEMIC ACHIEVEMENTS

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)

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.
- Utilized Redux and Redux Thunk to manage application state and handle asynchronous operations, integrating seamlessly with Firebase Firestore for efficient data storage and retrieval.
- Key features: Firebase Auth for secure user access, CRUD functionality for task management, and a blog-like community timeline.
- GitHub Repository: github.com/jxne00/Taskery

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

Feb 2024

- Explored various Dense Neural Network configurations including adjustments to layer count, neuron density, and applied regularization techniques like early stopping, dropout layers, and L1/L2 regularization to optimize model performance.
- Conducted hyperparameter tuning using a custom grid search implementation to find the most optimal hyperparameters.
- Read here: 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

Exploratory data analysis | *Pandas, Matplotlib, Webscraping*

Dec 2022

- An in-depth analysis exploring 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" dataset from Data.gov.sg.
- Conducted web scraping 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

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

Spotify Charts | *SQL, Node.js, Express.js, HTML*

July 2022

- A web application that displays Spotify charting information queried from an SQL database. Built using Node.js and Express for the backend, and HTML, CSS, and EJS for the frontend.
- The data used was obtained from Kaggle, then cleaned and normalised before it was used to setup the database.
- GitHub Repository: github.com/jxne00/SpotifyCharts