SHUAN CO.

SOFTWARE ENGINEER & MACHINE LEARNING OPERATIONS

CONTACT & LINKS

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EDUCATION [3RD YR]

Dr. Andrew L. Tan Data Science Institute – Research Member

De La Salle University Manila, Bachelor of Science in **Computer Science Major in Software Technology**

De La Salle University Manila, Minor in **Data Science**

EDUCATION

★★★★☆ Machine Learning
★★★★☆ Python
★★★★☆ Java
★★★★☆ HTML & CSS
★★★★☆ JavaScript
★★★☆☆ React
★★★☆☆ MySQL
★★★☆☆ Git
★★★☆☆ C# |C++ |C
★★★☆☆ Cloud Services
★★★☆☆ Video Editing
★★☆☆☆ Golang

PROFILE

Experienced **Software Engineer** with **specialization in Machine Learning, Data Science and Web Development.** My key attributes are to **quickly adapt** to emerging technologies, **consistency** to meet deadlines, **curiosity** to learn, and **determination** to not only improve my skills but to also **innovate a better future for society** through the advancements of technology. I thrive in **teamwork**, **embraces leadership roles**, and **value learning from others** for continuous improvement. Despite this, I am also **confident in my own skills**, **contributing effectively to achieve shared objectives.**

EXPERIENCES & PROJECTS

- **Health Care System** @https://healthysys.netlify.app – is a web application requested by a client which facilities **patient record tracking and viewing for multiple clinics** and patients. The team worked **under Agile and Scrum methodology**. Primary roles were being a **scrum master (3 sprints)** and **a full-stack develope**r (FERN Stack: Firebase, Express, React and Node.js) and database administrative responsibilities through Google Firebase.
- **The Sequential Filipino Sign Language Gesture Interpreter** - is an application and neural network model that **translates real-time hand gestures captured from a camera into Filipino Sign Language**. Using LSTM (Long Short-Term Memory Network), it efficiently **captures sequences of gestures, expanding its vocabulary range.** The model employs hand landmarks for accuracy, disregarding background noise, and incorporates TinyML techniques, such as quantization, to enhance performance on lower-end systems.
- **Analyzing Time Series Data with Machine Learning Models** - employs solar power data to **predict time series events**. The utilized models include XGBoost (eXtreme Gradient Boosting), LSTM (Long Short-Term Memory Neural Networks), and GRU (Gated Recurrent Unit Neural Networks).
- **Social Media Website** @https://orbitgalaxy.netlify.app, **Orbit** - Orbit employs Google Firebase for secure authentication and cloud-based database management. Its key features encompass **real-time messaging, posting, and the creation of reels.** This project was developed with three members, I primarily worked as a **full stack developer** with my focus being authentication (Register & login), database administration, real-time messaging, and web design.
- **Dog or Cat Image Recognition** - utilizing Convolutional Neural Networks (CNN), is trained, and deployed with a substantial dataset featuring various **dog and cat classifications**.
- **MedicAI** - is a Medical Bot that **utilizes simple instructions to deduce potential illnesses from given symptoms.** It employs Prolog for rule generation, with Python and JavaScript managing the backend, and HTML/CSS for frontend design.
- **PolyFarm** - is a 3D game where **players earn money through activities like planting, harvesting, and utilizing in-game mechanics**. The game is built using JavaFX.
- **PathFindr** - is a Python-backed web visualizer using HTML and CSS for the frontend. It **employs A* and Breadth-First Search algorithms to navigate mazes or pathways.**