Panayu Keelawat

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OBJECTIVE

A master's student at UC San Diego graduating in June 2022 who has experienced real-world high-reliability product development. Seeking a software engineering role to gain further career development in the US.

EDUCATION

University of California San Diego, La Jolla, CA, USA **Sep 2020 - Present**
Master of Science, Computer Science
Expected Graduation in June, 2022

Chulalongkorn University, Bangkok, Thailand **Aug 2015 - May 2019**
Bachelor of Engineering, Computer Engineering
First Class Honors (Rank: 5/115) GPA: 3.90/4.00

TECHNICAL SKILLS

C/C++, Python, Java, PHP, JavaScript, HTML, CSS, SQL, ReactJS, NodeJS, Git, Flask, MongoDB, Conda, Docker, VSCode

WORK EXPERIENCE

Research Assistant **Jul 2021 - Present**
Design Lab — UC San Diego — USA

- Collaborate with two other students to design a remote meeting software that extracts implicit intentions to improve user experience
- Prototype novel interaction ideas iteratively using ReactJS, Firebase, WebRTC, NodeJS, and Socket.io to quickly obtain feedback
- Conduct formative and summative studies to pinpoint potential features and evaluate the usefulness of the interactions based on our final prototype

Software Engineer (Graduate) **Jun 2019 - May 2020**
Refinitiv — Thomson Reuters — Thailand

- Ported the majority of the inter-bank foreign exchange deal tracker web services from C# to NodeJS for server compatibility
- Updated the GUI and Java backend to support new deal types from FX Trading that feeds in transaction volumes of $425bn+ on average per day
- Developed internal Java Spring Boot APIs to assist the workflow of the support team in querying the Oracle SQL database
- Re-architected transaction filter and sorting functions in the frontend for maintainability and scalability

Research Intern **May 2018 - Jul 2018**
Numao Laboratory — Osaka University — Japan

- Worked in an AI research lab with the goal to enhance music listening experience by emotion recognition based on brainwaves
- Led the experiment of improving emotion recognition accuracy with various machine learning models using Keras, MATLAB, PyTorch, Python, and Conda
- Achieved good test results and was able to publish one conference paper and one journal paper from this project

SELECTED PROJECTS

Vision-based Crowd Density Reporting System

- Constructed a Flask server and deployed it to an AWS EC2 instance to handle image inputs, send images to the AI module, and push the outputs to display on the mobile application
- Implemented the data manipulation portion of the React Native mobile application which acts as an interface for crowd density reports
- Created a Python script that was deployed on a Raspberry Pi 3 Model B in order to take photos and send them to our server for computation
- Won the 1st runner-up prize in the National Software Contest 2019 (IoT track) in Thailand together with two other team members

CERTIFICATION

Deep Learning Specialization *issued by Coursera: DeepLearning.AI*
Certificate link: *https://www.coursera.org/account/accomplishments/specialization/certificate/HHLPGUG6T83V*