Kyle Huang Junyuan
Final-year Computer Science Undergraduate

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EXPERIENCE

Temasek International Pte. Ltd.

Full-stack Software Engineer Intern   *May – Dec '20*

- Part of an in-house development team to develop a web app using TypeScript React, Express and PostgreSQL
- Integration with Amplitude to track user analytics
- Explored CI/CD workflow and branching strategies for different environments

1st Place in CPF Hackathon 2020

UI/UX of CPF Website   *Jan – Nov '20*

- Proposed a redesign of the CPF website to achieve a clean and intuitive user interface
- Integrated with a recommender system using Azure Machine Learning service to deliver a personalised digital experience

3rd Place in HackNTU Hackathon

Web Application   *Mar '19*

- Led a team of 3 to develop a JavaScript web app that helps first responders quickly identify and provide critical patient information to first responders with facial recognition
- Promoted the push of the smart nation initiative by removing the reliance on physical forms or NRIC

Tech Lingo (techlingo.co)

Co-founder, Full-stack Developer   *Mar '15 - Present*

- Started a technology review platform in Singapore
- Taught myself to deploy a highly scalable website using Google App Engine to serve the company's website
- Authored over 100 written articles and videos that has accumulated over 660,000 views on YouTube

EDUCATION

Nanyang Technological University

Aug '17 - Present

- Bachelor of Engineering (Computer Science)
- Specialisation: Artificial Intelligence and Data Science & Analytics
- Expected Honours (Distinction)

Ngee Ann Polytechnic

Apr '12 - Mar '15

- Diploma in Electronic & Computer Engineering
- Silver medallist with cumulative GPA 3.93 of 4

SKILLS

JavaScript/TypeScript · Node.js · Python · Java · C · Express · React · Next.js · Gatsby · Firebase · Docker

PROJECTS

Final Year Project, NTU

Blockchain with IoT Applications   *Aug '19 - May '20*

- Built a full-stack web app for IoT sensor data collection using React and REST API in Node.js that is deployed onto an AWS EC2 instance
- Integrated storage of sensor data with the IPFS peer-to-peer distributed file system
- Employed time-series classification techniques on logged data to accurately identify electrical appliance in use

Software System Analysis & Design

Web Application   *Jan - Mar '20*

- Led a team of 11 to develop a web app using React and Firebase Realtime Database to create an educational learning platform
- Students can attempt or submit questions which promotes learning through gamification

Data Analytics & Mining Project

House Price Prediction   *Aug - Dec '19*

- Led a team of 6 to participate in a Kaggle competition for house price prediction on a dataset of 1459 samples and 79 features
- Undertaken techniques such as Neural Networks and Extreme Gradient Boosting (XGBoost) using TensorFlow to achieve a low Root Mean Square Log Error of 0.143

LEADERSHIP & CO-CURRICULAR ACTIVITIES

Poly Stage Production

Technical Director   *Apr '13 - Mar '15*

- Headed teams in providing audio-visual expertise for stage performances and conducted training sessions
- Gained valuable leadership and time management skills in leading multiple teams for over 40 events