MICHAEL CHEN

michaelchen.io · michaelchenkaijie2004@gmail.com · +65 9822 3457

EDUCATION

Raffles Junior College Singapore
Jan 2020 - Present

SKILLS

Frontend:	Javascript, ReactJS, Hooks & Context API, NextJS, Redux
Backend:	Python, Django & DRF, Celery, Django Channels, PostgreSQL & Redis
Data Science:	Scikit-learn, Statsmodels, NLTK, Keras, Pandas

EXPERIENCE

Tinkertanker Singapore
Web Development Consultant May 2021 - Present

- Building an open-source learning management system (LMS) tailored for quick setup and better student engagement through gamification.

New Jersey Institute of Technology (NJIT) Remote
Business Data Science Research Intern Nov 2020 - May 2021

- Part of a research group on computational advertising headed by Prof. Christian Borcea and Prof. Chen Yi from NJIT
- Studied the impact of a deep learning counter-ad-blocking strategy on user engagement, using a Forbes dataset containing 40K unique ad-blocking users
- Helped extend the conference paper "To be Touch or Soft: Measuring the Impact of Counter-Ad-Blocking Strategies on User Engagement" into a journal paper

AI Singapore Singapore
Machine Learning Engineer Intern Jun 2020 - Jan 2021

- Implemented Monte Carlo simulations on historical transactions data of F&B establishments to predict how potential changes to food menu would affect revenue
- Built MenuCarlo, a web app for visualizing restaurants' historical transactions and recommending menu optimizations to enable revenue growth, using a React and Django
- Collaborated with Temasek Polytechnic and various F&B establishments

Psion Insights Singapore
Data Science Intern July 2020 - Jan 2021

- Built risk classification model with Keras CNN to categorize existing risks into relevant types, thus saving the time of risk managers by automating their workflow
- Implemented fuzzy matching algorithm using NLP-based KNN models to recommend controls for newly-added company risks, allowing risk management teams to make more accurate decisions
- Deployed a Logit classification model and TF-IDF content recommender system into production using AWS Lambda

PROJECTS

FastDash *ReactJS & Redux, Django & DRF, PostgreSQL, AWS S3* https://git.io/JI3Gb
Inspired by Excel PivotCharts, FastDash is a web app for building dashboards, designed for rapid visualization and easy sharing.

SEAT Web App *Django, Scikit-learn KNN, Bokeh, NLTK* https://git.io/JUP5M
A sentiment analysis web app which aims to democratize sentiment analysis for non-technical users. Its feature set includes (i) Twitter API integration, (ii) filtering and classification using fuzzy matching, and (iii) pre-trained sentiment analysis models.

CERTIFICATIONS

CS50W: CS50's Web Programming with Python and JavaScript HarvardX
Learnt the basics of Django and vanilla Javascript. Built FastDash as my CS50W final project.

Microsoft Data Science Professional Programme Microsoft
Completed a total of 6 courses: Essential Math for Machine Learning, Principles of Machine Learning, Querying Data with Transact-SQL, amongst others.