Adelaide, SA, Australia

SHAWN LYU

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Education

The University of Adelaide	**Adelaide, Australia**	Will Graduate June 2023

Master of Computing and Innovation

The University of Southampton	**Southampton, United Kingdom**	Graduated June 2019

Diploma of MicroElectroMechanical Systems

Beijing Jiao Tong University	**Beijing, P.R.China**	Graduated June 2017

Bachelor of Electronics Engineer

Work Experience

Data analysis Intern — Ping An Bank   Nov 2020 – Mar 2021

Working on improving the algorithm of the Q&A robot with the team members based on the corpus obtained by the web crawler. Created a script for automatic crawling. (Python)

Projects

MyWork 🔗   Mar 2023

Developing a fully functional full-stack MERN web application comes with complete CRUD functionalities, authentication features, and chart visualizations to help users track their progress and performance over time. The application is designed to help teachers manage and check students' workload and project process, while also allowing students to record their working hours and check on their team members' progress. In this project, I was responsible for nearly all aspects of development, including both front-end and back-end. For the front-end, I utilized React and TypeScript, while for the back-end, I utilized MongoDB and Express. (JavaScript, TypeScript, NodeJS, React, Express, Material UI and MangoDB)

Distributed system 🔗   July 2022

Wrote a web page to simulate and visualize the stability of information passing between cowboys after they are attacked. Specifically, cowboys pass information through raft. After the leader is attacked, a new leader is selected in the shortest possible time, so that the cowboys can avoid the next wave of attacks. I am responsible for the design and optimization of the front end, and participate in the data feedback and reception of the back end. (JavaScript, NodeJS, Html, CSS and MangoDB)

E-commerce website conduction and operation   Mar 2021

Create an e-commerce website speebuy.com based on the Shopify platform. I was responsible for the construction of the entire webpage, mainly the front-end UI design and coding, as well as the sales and delivery of e-commerce. (JavaScript)

Titanic   Sep 2020

Create a model using random forests to predict the survival of certain passengers after the sinking of the Titanic. Use Seaborn and Matplotlib to analyze the original data, and perform correlation analysis on multiple sets of data. Clean the data. Finally, predictions are made based on the model obtained from the training data. (Python)

Languages

Proficient: C++, Java, Python, JavaScript, Git

Experienced: Node.js, MangoDB, TypeScript, React, SQL

Additional Experience And Achievements

- **Node.js, Express, MongoDB & More (2023)** - Master the entire modern back-end stack: Node, Express, React, MongoDB and Mongoose. Build a complete, beautiful & real-world application from start to finish (API and server-side rendered website)
- **Ravi's Study Program (2022)** - 13 Week Intensive Programming Bootcamp.
- **Microsoft Azure AI Fundamentals (AI-900) (2022)** - Learning how to use Azure and AI services.
- **Global IQ Connect (2022)** - Involves in volunteer jobs and cross-culture communication events.
- **Kaggle SQL Course (2020)** - Learning and training SQL based on Python.
- **Exchange Study (2015)** - Study electrical engineering at the Department of Electrical Engineering, National Chiao Tung University (Taiwan).
- **German Volkswagen Automation Training (2015)** - Learning and training for Siemens automation systems.