Daniel Tsiang

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Enthusiastic, motivated & skilled STEM graduate seeking a career change to a software development role based in London.

EDUCATION

Harvard University   **Remote**

CS50x: Introduction to Computer Science (certificate)   Jan 2021 – Mar 2021

- Wrote Python code to run simulations, solve cash problems and to scan & analyse various data sets.
- Created scripts in C to encrypt text, recover data after deletion & transform images. I also simulated elections, genetic inheritance & implemented a spell checker using a hash table.

Imperial College London   **London**

Master of Engineering in Chemical with Nuclear Engineering (First-Class)   Oct 2014 – Jun 2018

- Led a team of 4 to design a reactor model using MATLAB and to mitigate upstream disturbances.
- Collaborated with a team of 10 to design and financially plan an aspartame (sweetener) production plant starting from raw ingredients. I developed the safety and control system for the plant.

EXTRACURRICULAR ACTIVITIES

Coding Projects

Stock Simulator (demo)   Apr 2021

- Designed and built a web app using Python with Flask's MVC framework, connected to a SQL database.
- Crafted a user friendly interface utilising the Bootstrap CSS framework & HTML.
- Implemented JavaScript to control data display, manipulate and validate data.
- Used AJAX calls to update data displays in real time.
- Wrote Python scripts to query an API to acquire financial data and manipulate it for display by JavaScript.

JPMorgan Chase & Co.   **Remote**

Software Engineering Virtual Internship   Feb 2021

- Fixed broken client data feed Python script to enable analysis of stock trading opportunities, and created unit tests for methods in the client application.
- Diagnosed and solved issues with client-side TypeScript and React web applications to automatically update graph displays as stock data is received from the server application.

WORK EXPERIENCE

AWE   **Reading**

Nuclear Safety Engineer / Project Manager   Sep 2018 – Present

- Presented safety observations from physical inspections and best practices back to team members.
- Briefed key stakeholders on important updates and actions during client interface meetings.
- Authored and peer reviewed safety documentation, ensuring the quality meets high nuclear standards.
- Analysed risks and provided recommendations to improve hazard management.
- Planned and delivered 10 primary schools visits to inspire and engage children with STEM activities.

SKILLS

- **Programming Languages:** Python, JavaScript (plus CSS & HTML), C, SQL
- **Programming Frameworks / Tools:** Flask, Bootstrap, jQuery, Git
- **Spoken Languages:** English (Native proficiency); Cantonese (Limited working proficiency); Mandarin (Elementary proficiency); GCSE French (Grade A*)