Daniel Tsiang

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https://danieltsiang.github.io

High potential and eager to learn engineer seeking entry-level software developer roles based in London

EDUCATION

Harvard University   **Remote**

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

- Languages covered: Python, JavaScript (plus CSS, HTML and jQuery), C , SQL
- Final project: web app to simulate stock trading, queries an API for real stocks' actual prices
- Topics covered: algorithms, data structures, security, software engineering, and web development

Imperial College London   **London**

Master of Engineering in Chemical with Nuclear Engineering   Oct 2014 – Jun 2018

- University Degree Classification: First-Class Honours

Newcastle-Under-Lyme School   **Newcastle-under-Lyme**

High School and Sixth Form   Sep 2007 – Jun 2014

- A-Levels: Maths (A*), Physics (A*), Chemistry (A*); AS Level: Biology (A)
- IGCSEs/GCSEs: 8A*s, 1A

EXTRACURRICULAR ACTIVITIES

Coding Projects

Stock Simulator (demo)   Apr 2021

- Designed and built RESTful web app using Python with Flask's MVC framework, connected to a SQL database
- Web app simulates managing portfolios of stocks, using real stocks' prices by querying an API
- Users can create an account and login, check stock prices, buy and sell stocks, update cash amount, change password (stored as salted hashes for security), view and clear history of transactions
- Trading stocks will update the portfolio display and selectable options without page reload via AJAX calls
- Front-end is styled using CSS with Bootstrap framework, includes popup forms, loading animations and embedded confirmation alerts for enhanced user experience, as well as a mobile-friendly navbar layout
- Using JavaScript, users can search and sort the stock data displayed in tables
- User inputs are validated before form submission via jQuery and feedback is shown to user, e.g. error message if password does not meet strong complexity requirements

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 added unit tests for methods in the client application
- Fixed the client-side TypeScript web application so that it displays a graph that automatically updates as it gets stock data from the server application
- Adjusted data set up on React web application to provide clear visualisation of data with UI/UX considerations accounted for, allowing traders to monitor their trading strategies

WORK EXPERIENCE

AWE   **Reading**
Engineer   **Sep 2018 – Present**

Safety Engineer   Nov 2019 – Present

- Communicated technical information in a simple manner, using visual aids to present key details
- Analysed risks and documented findings, providing justifications on suitable hazard management
- Interviewed graduate applicants and mentored successful candidates during their graduate scheme

Process Engineer   Aug 2019 – Oct 2019

- Presented safety observations from physical inspections and best practices back to team members
- Reviewed technical documentation and checked for technical errors

Project Manager   Apr 2019 – Jul 2019

- Streamlined efficiency of reporting of metrics by automating laborious tasks
- Wrote guidance documents to ensure high quality of deliverables produced
- Monitored progress towards monthly targets and published regular updates on priority of deliverables

Client Interface Management   Sep 2018 – Mar 2019

- Liaised between senior management staff and regulators as the key point of contact
- Briefed key stakeholders on important updates and actions during client interface meetings

Voluntary School Outreach Project   Jan 2019 – Jul 2019

- Planned and delivered 10 primary schools visits to inspire and engage children with STEM activities
- Led communication with external parties, e.g. schools, charity, and arranging grand prize

SKILLS

- **Technical Skills:** Python, JavaScript (plus CSS, HTML and jQuery), C, SQL, Git
- **Spoken Languages:** English (Native proficiency); Cantonese (Limited working proficiency); Mandarin (Elementary proficiency); GCSE French (Grade A*)