

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)

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

Apr 2021

- Web application to simulate managing portfolios of stocks, using real stocks' prices by querying an API
- *Model*: SQL database, *View*: front-end uses JavaScript with jQuery, *Controller*: back-end built using Python with Flask framework
- Functionality: Users can register for an account and login, check stock prices, buy and sell stocks, update cash amount, change password (stored as hashes for security), view 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 in-page alert notifications for enhanced user experience, as well as a mobile-friendly navbar layout
- Users can search and sort the stock data displayed in tables
- User inputs are validated before form submission 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 Engineer

Reading
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 e.g. checking of duplicate entries, flagging up based on proximity to due date and tracking of deliverables submitted
- 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 regulatory 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 & INTERESTS

- **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*)
- **Interests:** Travelling and experiencing new cultures, collecting postcards as souvenirs, learning Mandarin