# Daniel Tsiang

5 Letcombe Court, Church Street, Reading, RG1 2SB | 07533940356 | dan_tsiang@hotmail.co.uk |
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

- 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 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
- 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 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

- **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*)