

# James Luong

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[jluong23.github.io/blog](https://jluong23.github.io/blog)

London, UK

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## Skills

### Languages:

- ♦ Proficient with Python, C#, Java, JavaScript, HTML, CSS and L<sup>A</sup>T<sub>E</sub>X.
- ♦ Familiar with C++, Haskell, SQL and Ruby.

### Technologies:

- ♦ Proficient with MERN Stack, Git, Unity and Linux (WSL).
- ♦ Familiar with Ruby on Rails, Sinatra, ASP.NET MVC and MySQL.

## Education

### University of Sheffield

September 2019 - July 2022

Computer Science BSc.

**2:1, 67.4%**

#### ♦ *Dissertation Project:*

**First Class, 70%**

- **Title:** Accessing External Image Assets within a Virtual Reality System.
- **Research:** Evaluating existing methods for interacting with VR interfaces and querying image collections, using Nielsen's usability heuristics.
- **Outcome:** A VR interface was developed for accessing images by Google Photos API and OAuth2.0. Built with Unity and XR Interaction Toolkit.

#### ♦ *COM3420 Software Hut Project:*

**Team Project Winner**

- **Task:** Group project, developing a software system for client business requirements.
- **Contributions:** Front-end design. Formatting data into tables, summary pages and cron jobs emails using HAML.
- **Outcome:** A Vehicle Management System was developed for University of Sheffield Fleet Management, tracking MOT and safety test dates for vehicles. Built using Ruby on Rails.

### Six 21, London

September 2017 - June 2019

A Levels in Computer Science, Mathematics and Physics.

**A, A, B**

#### ♦ *Extended Project Qualification (EPQ):*

**A\***

- **Title:** Are top-level chess engines capable of human intellectual capacity?
- **Description:** Analysis of algorithms used in chess engines, using Searle's Chinese Room Thought experiment as a test for human intelligence.

## Experience

### Action Tutoring

October 2019 - March 2020

*Volunteer Maths Secondary School Tutor*

- ♦ Tutoring GCSE level Mathematics at local secondary schools in Sheffield once a week.
- ♦ Planning personalised lesson topics for each student.
- ♦ Developed communication and teaching skills, explaining my thought process to students.

### School 21 IT Department

October 2018 – February 2019

*Year 13 Work Experience Programmer*

- ♦ Setting up Windows operating systems and peripherals on new computers around the school.
- ♦ Developing an absence request system for staff members on the school intranet using ASP.NET MVC.

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|------------|---|----------------|
| Projects   | <b>Task / Todo Tracker</b>  | September 2022 |
|            | <ul style="list-style-type: none"> <li>◇ Full Stack CRUD project for managing tasks.</li> <li>◇ Filter function for resolved tasks and different task categories.</li> <li>◇ User authentication and login system via JSON Web Tokens (JWTs).</li> <li>◇ Built using MERN stack, styled with Tailwind.</li> </ul>   |                |
|            | <b>Personal Blog / Portfolio</b>  | July 2022      |
|            | <ul style="list-style-type: none"> <li>◇ Displaying blog posts reflecting on personal experiences and showcasing personal projects.</li> <li>◇ Using Python scripts with RegEx to format past WordPress HTML blogs into JSX and React components.</li> <li>◇ Built with React and styled components.</li> <li>◇ Hosted on GitHub pages at <a href="https://jluong23.github.io/blog">jluong23.github.io/blog</a>.</li> </ul> |                |
|            | <b>Shopping Cart Project</b>  | July 2022      |
|            | <ul style="list-style-type: none"> <li>◇ A fictional shopping page for selling album records.</li> <li>◇ Provides a daily song using Moment.js and the Spotify API.</li> <li>◇ Built with React and hosted on GitHub Pages.</li> </ul>  |                |
| Hobbies    | <b>Chess</b>  |                |
|            | <ul style="list-style-type: none"> <li>◇ University of Sheffield Chess Team Captain (2021-2022).</li> <li>◇ Organising fortnightly matches in the local South Yorkshire League, communicating with local chess club organisers.</li> <li>◇ 1848 ECF rating.</li> </ul>  |                |
|            | <b>Distance Running</b>   |                |
|            | <ul style="list-style-type: none"> <li>◇ Participating in BUCS and South Yorkshire Leagues with University of Sheffield Athletics Club.</li> <li>◇ Organising a sixth form 'Festival of Miles' event, leading weekly track sessions for students and staff members in preparation.</li> <li>◇ Sheffield Half Marathon 2021 in 1:35.</li> <li>◇ Currently training for Richmond Marathon, September 2022.</li> </ul>         |                |
|            | <b>Climbing</b>   |                |
|            | <ul style="list-style-type: none"> <li>◇ V4-V5 bouldering, developing problem-solving skills.</li> </ul>  |                |
| References | <p><b>Dr Steve Maddock</b> (UG Dissertation Supervisor)<br/>         Senior Lecturer in Computer Science<br/>         University of Sheffield<br/>         Regent Court, 211 Portobello<br/>         S1 4DP<br/>         Email: <a href="mailto:s.maddock@sheffield.ac.uk">s.maddock@sheffield.ac.uk</a></p>  |                |