Ryan Lai

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PROFILE

As a junior software engineer and recent physics graduate who is highly adaptable and learns quickly, I am eager to explore new opportunities and find new environments to thrive in. My experience with JavaScript, Ruby, and Python, gained through university coursework, coding bootcamps, and personal projects, has equipped me with a strong foundation in programming. Beyond coding, I am a lover of basketball, music production, and creative pursuits. I believe that creativity and communication are key to success in any situation and make a point to apply these traits to every challenge I encounter.

LANGUAGES

English	Native speaker	Chinese	Professional Level

SKILLS

Good Team Player	Hardworking
Ability to Work Under Pressure	Flexible and Adaptable
Independent Thinker	Articulating Concepts & Ideas

TECHNICAL SKILLS

Programming Languages

Languages: JavaScript, Python, Ruby, TypeScript

Frameworks/Libraries: React, NodeJS, ExpressJS, MERN Stack, NextJS, TailwindCSS

Databases: MongoDB, PostgreSQL

Version Control: Git

EDUCATION

Sep 2019 — Sep 2022

Bachelor of Science in Physics, University College London
London

Graduated with Second Class Honours (2:1).

Projects Undertaken:

1. **Group research experiment** involving 'The magnetic properties of hybrid organic-inorganic materials and whether it can be altered by manipulating the individual molecules of the crystal'. Responsibilities included:

   - Communications officer & meetings minute taker
   - Writing and presenting sections on 'ferromagnetism and anti-ferromagnetism' in the final report
   - Writing up the practical risk assessment for laboratory sessions

2. **Twelve-week experiment** investigating 'Compton scattering on gamma-rays'. The experiment involved:

   - Delegating responsibilities to each lab partner to maximise efficiency.
   - Creating user-defined python programs to compare experimental data to hypothesized models.
   - Writing an interim report & final report summarising the processed results and experimental evaluation.

3. **Numerous coding projects** (using **Python**) that involved tasks such as data analysis, computational treatment of experimental data, and creating 3-dimensional models and animations of physical systems.

4. **Article** on 'The future of manned space travel to other astronomical bodies in our solar system in the next 50 years'. Learned how to conduct credible research and the correct practices when citing references.

Despite the difficult nature of the degree, engaging in these various group projects has developed me into an excellent team player with strong interpersonal skills, although I can work just as well independently.

Sep 2017 — Jul 2019

Higher Education, Alice Smith International School
Kuala Lumpur

8 A*s & 3 As (GCSEs).

2 A*s in Mathematics, Physics & 2 As in Further Mathematics, Chemistry (Advanced Levels).

Dec 2022 — Apr 2023

Makers Academy, Programming Bootcamp
London

Learnt industry-skills such as TTD (test-driven development), developing as a team, agile workflow,

pair programming, and more.

Projects Completed:

- Social Media App
- Photo-Sharing Application
- Bowling Scorecard Tracker

WORK EXPERIENCE

Jun 2022 — Aug 2022   **Assistant in Website Development, Wahine Capital**   Kuala Lumpur

- Assisted in the client-side development of the company's prototype web pages.
- Created preliminary layouts for the design and branding of the company.
- Involved in mapping out the structure and flow-chart of the company's website.

Nov 2020 — Mar 2021   **Tutoring Work Experience, The Local Teachers**   London

Part-time tutor for students studying the sciences or mathematics for GCSEs and A Levels.

- Worked as a teacher in a tutoring centre.
- Travelled to the student's homes two to three times a week to tutor.

Jun 2017 — Jul 2017   **Intern at a Financial Databasing Company, World'Vest Base**   Kuala Lumpur

- Assigned the task of updating spreadsheets by referencing raw data from the annual/ quarterly reports of a list of companies
- Responsibilities included transferring data onto the company's database & updating my department with new business reports.

EXTRACURRICULAR ACTIVITIES/ VOLUNTEER WORK

Computer Programming

I began coding as a pastime when I was about 16 and have since undertaken many projects, such as a file-sharing website and a Japanese RPG game. Towards the end of 2022, to prepare for a career in this avenue, I began studying at Makers Academy, a developer bootcamp. Having already had plentiful experience with coding from university & personal endeavours, Makers Academy felt like the perfect opportunity to hone my craft.

Producing Music

I learnt to produce beats on my laptop several years ago as a fun pastime. As my expertise grew, I decided to start uploading my instrumentals to websites where artists can purchase licenses, granting them the rights to profit off songs that use my beats. Soon, I started to garner some sales and to this day I still love producing music in my spare time.

High School Sports Teams

I represented my school in basketball, cross country, badminton, swimming, water polo, and track & field. Competing in these international competitions has taught me how important comradery and communication are for success, especially in a team setting.

Construction Work in Krabi

I, along with a group of volunteers, spent 2 weeks building essential facilities (bathrooms, piping) for a local community in Krabi during the summer of 2019. Responsibilities included mixing cement, laying structural foundations, wheelbarrowing material, etc.

REFERENCES   Rejina Rahim from Wahine Capital

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