**Ryan La**

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**Education**

**University of Birmingham Birmingham, UK**

*BEng Mechanical Engineering with a Year in Computer Science June 2025*

Grade: 2:1 (Expected)

* **Courses:** Algorithms, Data Structures and Databases, Full Stack Engineering, Object Oriented Programing, Intro to Computing, AI and Machine Learning

**The Becket School Nottingham, UK**

*Mathematics, Physics, Chemistry July 2021*

Grade: A\**,* A, A

**EXTRACURRICULAR & CERTIFICATES**

**Commonwealth Bank (Forage)** *September 2023*I completed tasks that replicate the work that CommonWealth’s software team do every day. I built a website from scratch that includes financial cybersecurity tips for clients, customised the website to meet the required style guidelines and created a web hosting proposal that compared different SSL.  
**New York Jobs CEO Council (Forage)** *October 2023*Completed a challenging simulation focused on debugging and developing features for the software engineering team. Resolved a critical bug in an automated billing system by skillfully identifying the root cause and developing an effective solution. Improved user experience by developing a code that supports a note-taking feature on each invoice, enhancing communication and transparency between senders and recipients.

**Lyft (Forage)** *October 2023*Completed the Back-End Engineering job simulation, taking over development of an unfinished project for Lyft Rentals team. Drafted a UML class diagram representing a new reorganised architecture. Refactored a messy codebase inherited from another team to accurately reflect my new design. Implemented unit tests and added new functionality using test-driven development.

**PROJECT & WORK EXPERIENCE**

**E-commerce Website**

**Languages, Frameworks and Modules:** Python, Flask, Bootstrap, HTML, SQLAlchemy, WTForms, Werkzeug

**Skills:** Web Development, Database Design, User Authentication and Authorization, Responsive Design, Virtual environments

**Description:** Leveraged strong web development skills to create a successful online storefront from scratch. Designed and implemented a secure and user-friendly online shopping platform, including database design, user authentication and an admin account to allow adding or removing of products from the store.

**Github Repository:** <https://github.com/ryanlkl/Ecommerce-Store>

**Simple Blogsite**

**Languages, Frameworks and Modules:** Python, Flask, Bootstrap, HTML, SQLAlchemy, WTForms, Werkzeug

**Skills:** Web Development, Database Design, User Authentication and Authorization, Responsive Design

**Description:** Developed a simple and user-friencly blog site. Designed and implemented easy to read and dynamic blogging platfrom that allows readers to comment on individual posts.

**Github Repository:** <https://github.com/ryanlkl/Blogsite>

**Anime Database Website**

**Languages, Frameworks and Modules:** HTML, CSS, JavaScript, React

**Skills:** Web Development, API request handling, User Interface

**Description:** Developed a very basic, easy-to-use site. Integrated the use of an API to request data from which is, in turn, shown on the website. The user can create lists of watched shows as well as view details and search the API.

**Github Repository:** <https://github.com/ryanlkl/Blogsite>

**ADDITIONAL SKILLS & INTERESTS**

**Skills**: Python, Flask, HTML, CSS, JavaScript, React, C, SQLite, SQLAlchemy, Jinja, Web Development, User Authentication and Authorization, Pandas, Postman, Bootstrap, High attention to detail, Innovative, Complex problem solver, Excellent written and verbal communication

**Hobbies:** Former national and international competitive figure skater, Leander Swimming club member, 274 UCAS points