Ethan **Towers**

STUDENT · ROYAL HOLLOWAY

London/Slough Based

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Summary

I am currently studying in my third year of Computer Science, with modules focusing on Machine Learning and Software Engineering, while working on my final year project on Ridge Regression algorithms. In my previous two years of study, I have averaged 79 across all of my modules. I expect to graduate in 2026 with a first-class degree.

Skills

Programming Languages	Java, Python, C, JavaScript, React
Libraries / Tools	SpringBoot, Maven, NumPy, Pandas, Scikit-learn, Matplotlib
Web-Development	Postman, HTML, CSS, SpringBoot
Databases	PostgreSQL, SQLite, mySQL
Others	Git, Linux, Docker

Education

Royal Holloway, University of London   *Egham, Surrey*

BSc IN COMPUTER SCIENCE   *Sept. 2023 - July 2026*

- **Current year modules:** Machine Learning, Deep Learning, Quantum Computation, Software Language Engineering, Functional Programming, Applications of Cryptography
- **Second year modules:** Software Engineering, Multi-Dimensional Data Processing, Network Security, Algorithms and Complexity, Databases, Information Security, Operating Systems, Small Enterprise Team Project for a real client
- **First year modules:** Object-Oriented Programming, Machine Fundamentals, Internet Services, Software Design, Mathematical Structures, Programming Labs with a robotics project

Burnham Grammar School   *Burnham, Buckinghamshire*

A-LEVEL EDUCATION   *Sept. 2021 - Sept. 2023*

- **A-Levels:** Computer Science: B, Maths: B, Biology: B, Chemistry: C
- **Other Awards:** Academic Excellence Awards in Computer Science and Maths, Bebras Excellence Awards (2018-2020), UKMT Maths Challenge 3* Gold Award winner and best in year

Previous Employment

Waitrose and Partners   *Maidenhead*

SHOP FLOOR ASSISTANT   *Sep. 2021 - Sep. 2023*

- Worked in a team to maintain shop upkeep, improving on efficiency and customer satisfaction.
- Practiced soft skills used in customer service such as communication, problem-solving, and empathy.
- Learnt professionalism and organisational skills such as time management of jobs or leadership.
- Maintained a strong work ethic balancing school work and a part-time job.

Projects

Software Repository website   *2nd year University Small Enterprise Team Project*

FULL-STACK PROGRAMMING   *Jan. 2025 - Apr. 2025*

- Conducted in an agile scrum group of 8 student developers to create a product for a real client.
- Created a fully functioning role-based access-controlled website with a backend database to store details of all software used in a system.
- Incorporated a full stack of Java, Docker, SpringBoot with configured Spring security, React, JavaScript, HTML, and CSS.
- Added secure, encrypted username and password system with working JWT, using SpringSecurity.
- Used HTML and CSS web design to create aesthetic and functioning webpages for the frontend.

Java LeJos Robot

ROBOTICS PROGRAMMING

- Programmed and built a robot that reads and plays sheet music.
- Developed in a group of 4 students to gain experience with techniques used in coding robotics.
- Implemented using Python and the leJOS framework, which ran on Java threading.

Shop MFD(Multi-Functional Device) app

A-level NEA

APPLICATION DEVELOPMENT

Jan. 2023 - May. 2023

- Self-directed project to create and showcase capabilities as a programmer at a KS5 level.
- Used Python and SQL database.
- Created a shop assistant app for picking deliveries, item lookup, and off-sales.

Interests

Rowing

Maidenhead RC, Marlow RC, Royal Holloway BC

SCULLING / SWEEP

Competitive at a national level since junior, Raced 3 times at Henley Royal Regatta. Competitive team-based sport required to work well with others, communicate effectively and maintain discipline and fitness.