

Jash Shah

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Education

University College London

BSc Computer Science

Sept 2023 – June 2026

- On track to receive a **First Class Honours**.
- **Relevant Modules:** Object-Oriented Programming, Algorithms, Security, Software Engineering, Systems Engineering, Computer Architecture and Concurrency.
- **Major Courseworks:** Convex Hull Algorithms (Python, Jupyter Notebook, Matplot Lib), Tetris Auto-player (Python).

MET Rishikul Vidyalaya

International AS and A Levels

June 2021 – March 2023

- **A*A*A*A*** in Mathematics, Physics, Chemistry, and Information Technology. Ranked **First** in the school.

Experience

Head of Events

UCL Data Science Society and UCL Technology Society

2024 – 2025

- Served an integral role in orchestrating and seamlessly managing the society's events, requiring **strong organisational and leadership abilities**.

International Award for Young People (Bronze, Silver and Gold Levels)

Duke of Edinburgh

2019-2023

- Led a Computer Science and Mathematics **outreach program for underprivileged students** across India, including a visit to a remote village to provide educational support to tribal children.

Projects

Loome (Group Project) | FastAPI, Supabase, NextJS

- Developing a collaborative platform for students to discuss, share notes, and support each other.
- **Leading** the Front-end Development of the platform by designing and implementing UI styled components. Also added Back-end API endpoints to the FastAPI app.

Matrix Calculator | Python, Flask, SQL, Supabase, HTML, CSS, JavaScript

[Website Link](#) 

- Developed a highly efficient and interactive website for teaching matrices to high school students.
- Used SQL and Supabase to **prioritise personalised history** for each user. Also contains advanced filtering features for a tailored experience.

Bioreactor Prototype (Group Project) | C, ThingsBoard

- **Led** the development of the **end-to-end communication** between ThingsBoard, the ESP32 and the STM32 Nucleo Board so that the data collected by the sensors can be passed on to the cloud and actions can be taken depending on the data.

Hospital Data Management (University Coursework) | Java, Maven, Java Servlets

[GitHub Repository](#) 

- Built a web application that allows users to upload, edit and manage patient records through **CSV file integration**. Includes features like searching, filtering and **downloading records as JSON**. Provides graphical representations of patient data for efficient analysis.
- Developed using the **MVC design pattern**, where the Model consisted of Java classes. These were mapped by **Java Servlets** (Controller), which acted as **APIs**, allowing the JSPs (View) to access the Model and display data.

Technical Skills

Languages: Python, C, Java, SQL, JavaScript, HTML, CSS, Haskell

Frameworks/Tools: Flask, jQuery, NextJS, ReactJS, FastAPI, NumPy, OpenCV, MediaPipe, PyTorch, Matplotlib, Supabase, Git, API, ThingsBoard, Maven, Jupyter Notebook, Spring Boot