# Aryan Agrawal

Second year computer science undergraduate.
Development lead at **UniCS Manchester**.

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## EDUCATION

**The University of Manchester, UK — BSc Computer Science**         *SEPTEMBER 2020 – JUNE 2023 (EXPECTED)*
- First year modules: Python & Java Programming, Verilog Engineering, ARM Programming, Web Development, Operating Systems, Data Science, and Computation
- First year grade: **87% (First Class)**

**The British School of Brussels, Belgium — A-Levels**         *SEPTEMBER 2018 – JUNE 2020*
- A-Level grades: **A*A*AA** in Maths, Further Maths, Physics and EPQ respectively

## WORK EXPERIENCE

**UniCS**, United Kingdom         *AUGUST 2021 – PRESENT*
*Development Lead*
- Leading a team of developers to create an all-inclusive platform for society led hackathons using **React**, **Typescript** & **Firebase**, with **agile** development methodologies
- Optimized the society's back-end infrastructure to accommodate a 42% increase in society members

**UniCS**, United Kingdom         *AUGUST 2021 – PRESENT*
*Web Developer*
- Collaborated with 5 other students to develop the GameDev sub-society's website, using **React**
- Integrated custom-built Unity development tutorials into the website with dynamic UI elements and updated the tutorials on-demand

**A.G. Trading**, Belgium         *DECEMBER 2019 – JULY 2020*
*Part Time IT and Software Support*
- Facilitated support and troubleshooting for accounting software and system installations
- Developed leadership skills by helping less experienced employees use industry specific programs more efficiently

## PROJECTS

**React Recipe Recommendation Website: Recipedia**
- A web application to suggest healthy recipes from popular recipe websites, with a responsive design
- Suggestions made to the user based on preferences such as dietary requirements, allergies, BMI, and TDEE
- Developed the front-end using **React**, back-end using **Express** for **Node.js**, and database using **MySQL**
- Led a 7-person team using **Git** for project management, with 305 commits (over 50% of the total)

**Java Maze Solver**
- A depth-first search maze solver using **JavaFX**, rendering & solving .txt input mazes as well as serializing and deserializing partially solved routes
- Applied **OOP** principles to develop a lean program with maze & route validity checking

**Python Tkinter Puzzle Game: The Impossible Game**
- An interactive puzzle game using **Python**'s Tkinter module
- Implemented a leaderboard, load/save functionality, dynamic level regeneration, cheat codes, work mode

## TECHNICAL SKILLS

Python, Java, React, Typescript, JavaScript, Node.js, MySQL, HTML, CSS, ARM Assembly, Verilog, Git, LaTeX

## AWARDS & CERTIFICATES

**Kilburn Scholarship** for outstanding A-Level achievements         *DECEMBER 2020*
**CS50X** Introduction to Computer Science         *NOVEMBER 2020*

## LANGUAGES

Fluent in **English**, **Dutch**, and **Hindi**. Conversational in **French**.