Ari Cohen

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Profile

Second-year Computer Science student at King's College London, planning to graduate with a BSc in 2028. Seeking a Summer 2027 software engineering internship. First-year average 90%, including 100% in Discrete Mathematics and 99% in Data Structures. Currently building a team-allocation web application in Python/Django with a five-person second-year group project. Project work in graph algorithms, simulation and data visualisation, in TypeScript and Java.

Skills

Languages: Java, TypeScript, Python, C++, SQL

Tools & frameworks: Git, Django, JavaFX, JUnit, Vite, Android Studio

Other languages: English (native), Hebrew (fluent)

Projects

Student Team Allocation System — Python, Django · University group project, team of 5 · Year 2, in progress

- Building a web application with a team of five that allocates students into project teams
- Own the allocator: the algorithm at the core of the system that generates the teams

Pathfinding Visualiser — TypeScript · HTML Canvas · Summer 2026 · pathfinding-visualiser-one.vercel.app

- Built an interactive graph-search visualiser from scratch on HTML Canvas with no framework, implementing BFS, DFS and Dijkstra with user-drawn walls and weighted terrain
- Structured each algorithm as a generator yielding at every visible state change, so the search animates frame by frame

Rainforest Floor Ecosystem Simulation — Java · University coursework, pair project **(100%)** · Year 1

- Agent-based simulation of six species with plants, weather, day/night cycles and disease, built on an abstract Actor hierarchy

Air Pollution Visualisation Tool — Java, JavaFX · University coursework, group of 4 **(84%)** · Year 1

- Desktop application combining historical DEFRA datasets with a live air-quality API over an OpenStreetMap tile layer; owned the map rendering layer
- Generated the heat map by binning tens of thousands of data points into a 150×150 grid rasterised to a single image

Android Utilities — Android Studio *(Independent, built with AI coding tools)*

- *MyZmanim* — offline prayer-times app calculated from device location · *Daily Reset To-Do* — a task list that clears automatically each day

Experience

Youth Director, Raleigh Close Synagogue, London — paid, ~10 hrs/week alongside studies · Sep 2026–present

- Run the synagogue's youth activities, planning and delivering weekly sessions

Education

Computer Science, BSc 2028 **King's College London (2025–present)**	Year 1 average: **90%**, including Foundations of Computing (Discrete Mathematics) 100% · Data Structures 99% · Introduction to Software Engineering 91% · Programming Practice and Applications 90% Year 2 (in progress): Software Engineering Group Project · Foundations of Computing II · Internet Systems · Practical Experiences of Programming
Yeshivat Hakotel, Jerusalem (2023–2025)	Two-year full-time programme in Talmudic and Biblical studies, centred on close analysis of primary Aramaic and Hebrew sources in a structured pair-study format.
The King David High School, Manchester (2016–2023)	A Levels: Mathematics **A***, Further Mathematics **A***, Physics **A***, Chemistry **A*** GCSEs: 12 × Grade 9

Extracurricular Activities

Bnei Akiva UK — Youth Leadership (2017–present)

- **Staff team lead, international summer programme, Netherlands (Summer 2026)** — led the staff team delivering a residential programme for 90 participants
- Weekly programmes for ages 11–15 (2017–2023) and residential camps (2022–present); mentored junior leaders

Duke of Edinburgh's Gold Award