

Arya Golkari

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EDUCATION

Trinity College, University of Cambridge

Oct 2024 – Jun 2028

- BA (Hons) and integrated MEng Computer Science
- Part 1A: Achieved First Class result. Ranked 1st amongst 131 students.
- Awardee of: Cambridge Trust Scholarship; Mark Fitzgerald Prize; Percy Pemberton Prize; G-Research Undergraduate Prize.
- Clubs: Athletics; Science Fiction & Fantasy; Computer and Technology (Operations Engineer); Cybersecurity (Secretary).

King's College London Mathematics School

Sep 2022 – Aug 2024

- Achieved Grades: AS Level Computer Science (A); A Level Maths, Further Maths, Physics, Persian (A*A*A*A*); EPQ (A*); SAT (1600/1600).
- *NB.* Ranked 1st nationwide in A Level Further Maths.
- Clubs: Recreational Maths Club (Co-leader); Maths Book Club; Book Club.

AWARDS & ACHIEVEMENTS

- **British Maths Olympiad (Round 2):** Distinction (2023, 2024)
- **BPhO Senior Physics Challenge:** Gold – Top 10% (2023); Invited to the 2023 Annual BPhO Lecture
- **UK Bebras Elite Challenge:** Gold – Top 10% (2022, 2023)
- **Oxford University Computing Challenge (Round 1):** Full Marks (2023)
- **Iranian Mobtakeran Maths Olympiad (National):** Rank 4 (2019); Rank 3 (2020)
- **World Robot Olympiad (International):** Rank 8 (2017); Rank 3 (2019)
- **G-Research:** Undergraduate Prize (2025)

EXPERIENCE

Quality Assurance (QA) Intern

Jun 2025 – Aug 2025

- Employer: Carallon Limited (Brompton Technology Limited)
- Developed a Python API for communicating with video processors via an Ethernet-like protocol along with an e-paper display.
- Configured multiple Unix time servers and a non-traditional syslog server to store data from video processors and panel cards.
- Implemented an asynchronous distributed task queue system using Celery and Redis to enable remote control of processors.

STEM SMART Mentor

Jan 2025 – Apr 2025

- Employer: University of Cambridge (Department of Applied Mathematics and Theoretical Physics)
- Guided ~30 Year 12 students in preparation for A Levels, aptitude tests, and university applications.

Spring into Software Engineering at JPMorganChase

Apr 2025

- Engaged in talks, workshops, and a hackathon. Learnt to use Flask and React.
- Confirmed summer internship offer for the 2026 Software Engineer Program.

PROJECTS

IC Hack 2026. CLAM: Command Line Assistance Module

Feb 2026

- Developed a shell script module for integrated risk-assessing, error-correcting, and interactive command completion in Bash.
- Runner-up for the Best Developer Tooling track.

Extended Project Qualification. Parrondo's Paradox: Creating a Single-player Puzzle Strategy Game

Jul 2023 – Mar 2024

- Created a puzzle game inspired by the game-theoretic statement of Parrondo's paradox, implemented as a terminal application.
- Produced a 20,000-word article and delivered a presentation at the King's College London Maths School.

King's Certificate. The Learning Machines that Struggle to Count

Sep 2022 – Jun 2023

- *NB.* Served as the Team Leader.
- Investigated arithmetic reasoning in AI systems using linear and decision tree regression models (scikit-learn) and GPT-3.
- Produced a 10,000-word article and delivered a presentation at the King's College London Auditorium.

MISCELLANEOUS

Coding Languages: Python, Java (proficient); C++, C, System Verilog, OCaml, HTML, CSS, JavaScript (familiar)

Natural Languages: English, Persian (native bilingual proficiency)

Hobbies: Reading, Creative Writing, Running, Cycling, Theatre

Volunteering and Other Roles: Cam Hack 2024 (Committee Member), Beckton Parkrun (Marshal), Trinity College (Ambassador)