SEYOON PARK (Andrew)

Interested in machine learning, the theory of computation, and software engineering.

🌐 **fenwickyduck.github.io**
 fenwickyduck
in **seyoon-park-andrew**
✉ **seyoon.park@jesus.ox.ac.uk**

Languages: Korean (Native), English (Bilingual), Mandarin (HSK VI)

EDUCATION

University of Oxford — Computer Science, Integrated Master's Degree — 2025–2029
Modules: Probability, Functional Programming, Discrete Mathematics, Linear Algebra.
Member of CompSoc, the Invariants.

Harrow School — Academic, Music Scholar — 2020–2025
A* A* A* A A in A-level: Further Mathematics, Mathematics, Physics, Economics, Latin.
Head of Computer Science, House Prefect, Co-Leader in Inter-House Music Competitions.

AWARDS

Western-European Olympiad in Informatics — Silver Medal — 2025
Placed 12th in Western-Europe; Represented the UK as one of its top competitive programmers.

British Informatics Olympiad Finalist — National Top 15 — 2025
Invited to residential training camp to select the UK team for international competitions.

Ellison Scholarship Finalist — 2025
Showed advanced technology-related skills and a proven track record in problem-solving.

EXPERIENCE

The Perse Team Coding Challenge — Problem Writer & Tester — 2025
Collaborating to create the 2026th edition of PCTC, which attracts about 5000 students annually.

British Informatics Olympiad Helper — Open Source Contributor — 2024
Contributed to this open-source education project by authoring structured solutions for algorithm problems.

SmartChainServices — Work Experience — 2024
Built a high accuracy predictor using statistical learning methods and time series analysis.

Lovelace Hackathon — Co-Organiser — 2024
Designed 20+ programming puzzles for 150+ participants from 10+ schools.

PROJECTS

Bank Statement Parser — 2025
Developed a C++ data-processing tool that parses unstructured bank statement text, extracts transaction dates, memos, and balances, and computes cash inflow/outflow totals.
Implemented custom text-tokenization, date detection, and numeric sanitization logic, producing a clean structured output format for downstream analysis.

Pseudocode-to-Python Transpiler — 2024
Built a transpiler converting Cambridge IGCSE-style pseudocode into executable Python, supporting loops, functions, and CASE statements.

CREST Gold Project — 2024
Designed an evolutionary algorithm that reduced elevator energy usage by 3.3% across 100 simulations compared to conventional scheduling methods.
Used C++ and Python for algorithm development, with LaTeX and Excel for documentation and result analysis.

Algorithm Research — 2024
Developed a new variation of the Binary Indexed Tree (Fenwick Tree) using higher-order Fibonacci sequence, improving update/query trade-offs for prefix-sum operations; work published as a working paper on SSRN.