Cyrus Knopf

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Education

- 2022–25 B.Sc. (Hons) Computer Science at the University of Manchester (achieving First Class) Algorithms & Data Structures, System Architecture, Machine Learning, Compilers & Assembly, Databases
- 2019–21 A-Levels Mathematics, Further Mathematics, Physics

Experience

2023– Product Engineer at Optimistics

- Developed for an SEO company which served a top 10 UK travel insurance broker
- Frequent communication with management to understand delivery expectations
- Adviser on microservices, containerised deployment, and large language models

Projects

C++ • • Chess Engine with Monte Carlo tree search

 Implemented a bitboard chess engine and Monte Carlo tree search from scratch
 Leveraged Google Test in test driven development
 Performed optimisations motivated by profiling and Google Benchmark

 OCaml • Functional Data Structures

 Implemented various data structures in functional OCaml
 Utilised Jane Street's ppx_expect testing libraries to ensure correctness
 Used OCaml's modules and signatures; followed preference for immutability

 TypeScript • Obsidian Plugin: Smart Tasklists

 Contributed an open source plugin to the Obsidian ecosystem
 Used the Obsidian API to interface with the note-taking application
 Improved the features of Markdown to benefit my daily workflows

- 20241st: PeakAI Hackathon2023Top 3: Bloomberg BPuzzled Manchester
- 2023 1st: Great Uni Hack

Last updated: August 28, 2024