

Cyrus Knopf

Portfolio: cyrusknopf.com

Github: github.com/cyrusknopf

Email: cyrus.knopf@gmail.com

LinkedIn: linkedin.com/in/cyrusknopf/

EDUCATION

- University of Manchester** Manchester, UK
 - BSc Computer Science* *September 2022 - Present (2025 Graduation)*
 - Currently achieving a First Class Honours
 - Courses: Algorithms & Data Structures, Artificial Intelligence, Database Systems, Software Engineering*
- Worthing College** Worthing, UK
 - A-Levels: Further Maths, Maths, Physics* *Sep 2019 - Jun 2021*

EXPERIENCE

- Optimistics** Remote
 - AI Technical Developer - Freelance (Part-time)* *Jun 2023 - Present*
 - **Pioneered use of Generative AI:** Brought AI solutions for SEO for the first time into the company.
 - **OpenAI API:** Extensively used and tweaked OpenAI API calls to deliver the best results.
 - **LMQL & guidance:** Utilised query languages and prompt templating for optimised language model queries
- NHS** Worthing, UK
 - Food Service Assistant (Part-time)* *Jan 2022 - Sep 2022*
 - Worked independently on hospital wards abiding to strict health and safety regulations
 - Patient facing role: taking care of any food/drink requirements for all patients on a ward, along with regularly sanitation responsibilities
 - Responsible for ensuring specialised diets are followed, often patients with life-threatening consequences

SKILLS SUMMARY

- **Languages:** Python, Java, Typescript, JavaScript, C, LMQL
- **Frameworks:** Django, Flask, NodeJS, guidance
- **Tools:** Git, PostgreSQL, MySQL
- **Platforms:** Linux, Web, Windows
- **Soft Skills:** Leadership, Time management, Active listening

PROJECTS - PERSONAL

Obsidian Plugin: Smart Tasklists | Typescript, JavaScript, Obsidian API

- Implemented a recursive algorithm in TypeScript to improve vanilla Markdown tasks
- Leveraged the Obsidian API to create a responsive plugin
- Utilised correct Git workflows and version control

Chess AI (Work in progress) | Java

- Planning to utilise Monte Carlo tree search to power an AI chess agent
- Currently implementing bitboards and bitwise operations to optimise operations and decision making
- Working with a collaborator, ensuring correct Git usage for efficient workflows and version control

Manchester Aim Training Game | Python, TKinter

- Achieved 97% in university project to create a game in Python using TKinter
- Fully functional save and quit feature, allowing games to be resumed
- Utilised Python lambda functions for dynamic asset generation

PROJECTS - WORK

AI Title Tag Generator for Real Estate | Google AppScript, Bootstrap, jQuery

- Developed solution for use with 4 real estate companies to leverage AI for efficient title tag generation
- Seamless user experience, fully integrated the service into Google Sheets via Google AppScript
- Effective communication with manager to ensure requirements are delivered upon, involving active listening and effective written communication.

HONORS AND AWARDS

- 1st: Great Uni Hack 2023 - Web Design Challenge
Finished 1st out of 54 teams at a hackathon attended by multiple UK and international universities.