

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
• *Product Engineer - Freelance (Part-time)* Jun 2023 - Present
 - Brought AI solutions to an SEO company serving clients such as a UK top 10 travel insurance broker.
 - Extensively prompt engineered large language models, using frameworks such as LMQL and guidance.
 - Developed solutions using both application and web based technologies to deliver ergonomic products.
- NHS** Worthing, UK
• *Food Service Assistant (Part-time)* Jan 2022 - Sep 2022
 - Worked independently on hospital wards with strict health and safety regulations in a patient-facing role.
 - High responsibility role, including working with vulnerable patients and regular sanitation responsibilities.

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 - ACADEMIC & 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 - COMMERCIAL

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.