Cyrus Knopf

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Github: github.com/cyrusknopf

EDUCATION

University of Manchester   Manchester, UK
BSc Computer Science, currently achieving a First Class Honours September 2022 - Present (2025 Graduation)
Courses: *Algorithms & Data Structures, Artificial Intelligence, Database Systems, Software Engineering*

Worthing College   Worthing, UK
A-Levels: Further Maths, Maths, Physics   September 2019 - June 2021

EXPERIENCE

Optimistics   Remote
AI Technical Developer - Freelance (Part-time)   June 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
- Responsible for ensuring special diets and requirements are followed
- Ward cleaning responsibilities

SKILLS SUMMARY

- **Languages**:   Python, Typescript, JavaScript, Java, C
- **Frameworks**:   Django, Flask, NodeJS, TensorFlow
- **Tools**:   Git, PostgreSQL, MySQL
- **Platforms**:   Linux, Web, Windows
- **Soft Skills**:   Leadership, Time Management,

PROJECTS

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 | Java

- Utilising Monte Carlo tree search to power an AI chess agent
- Implementing bitboards to speed up efficiency of calculations and optimise decision making
- Working with a collaborator, ensuring correct git usage for efficient workflows and version control

HONORS AND AWARDS

- 1st: Great Uni Hack 2023 - Web Design Challenge