

Cyrus Knopf

Portfolio: cyrusknopf.com

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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 leveraged large language models, using frameworks such as LMQL and guidance.
 - Developed agile solutions using web 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
- Tools:** Git, PostgreSQL, MySQL, Docker
- 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

Naive Bayes Spam Filter | Python, Jupyter 🔗

- Implemented a Naive Bayes Classifier from the ground up to classify words and messages as spam or not spam with 93% accuracy
- Utilised libraries such as Matplot, Pandas and Functools
- Achieved 90% in university assignment with this foundational machine learning model.

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.
- Joint 3rd: Bloomberg BPuzzled 2023 Manchester