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

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
- Utilised libraries such as Matplot, Pandas and Functools
- Achieved 90% in university assignment

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.