Cyrus Knopf

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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, System Architecture, Compilers & Assembly, Database Systems, Machine Learning

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 Food Service Assistant (Part-time)

Worthing, UK 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, ARM Assembly, Haskell, OCaml, Typescript, C/C++

• Frameworks: Django, Flask, NodeJS

Tools: Git, PostgreSQL, MySQL, Docker

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 (Maven, JUnit 5)

- Aims to utilise Monte Carlo tree search to power an AI chess agent
- Currently implementing bitboards using bitwise operations to optimise moves and decision making
- Self managing a sizeable Maven Java project

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
- Silver: UKMT Senior Challenge