EDUCATION

Bachelor of Computer Science | Université Libre de Bruxelles, Belgium

- Expected to graduate in September 2023
- Relevant Coursework: Algorithms and Data Structures, Software Engineering and Project Management, Artificial Intelligence, Systems Administration, System Design and Development, Operating Systems, Databases, Networks and Information Theory

SKILLS

- Bilingual in English and French. Currently learning Dutch.
- Proficient in Python, Java and C++.
- Familiar with Linux, GIT/VCS, SQL, Excel, Kubernetes and Docker.
- Experienced in Agile software development methodologies and life cycles
- Basic exposure to React.js/JavaScript/HTML/CSS.
- Articulate presentation of ideas and confident speaking skills.
- Adaptable to ever changing and high-pressure environments.
- Possession of a valid driving license (Permis B)

PROJECTS

Study Buddy

- Implementation of a flashcard study app that was conceptualized using the MVC design pattern.
- Focused on OOP principles, Xtreme Programming and teamwork to design, code and test an app over multiple agile iterations to meet (mock) client's expectations.
- Worked across architecture, designing both front-end using JavaFX and the back-end using Java and SQLite

Algorithm to color graphs using only k-degenerate colors.

- Implementation of a coloring algorithm in O(n+m) time by taking advantage of the graph's degeneracy in Java
- Developed the algorithm from applying concepts that were solely derived from graph theory research papers.

Game of Amazons

- Heavily modified chess variant programmed in Python with a Functional GUI designed using PyQt5.
- Can play against an artificial intelligence based on a minimax heuristic function.

Decentralized Tournament Leaderboard Android App

- Node server that can store each "transaction" of a "match" to a decentralized chain over a network.
- Android app allows users to connect to the node establishing a peer-to-peer connection with other users and can write transactions onto the chain. Features include personal ELO calculations, SHA-256 encryption unique to each user's private-key and a foolproof transaction creation.
- Emphasis on decentralization technology and networking.
- Designed using Android Studio, back-end coded in Java.

Personal Portfolio Website

• Website coded using React.js, JavaScript, HTML, CSS that showcases a few of my projects – In development. https://harsdua.github.io/portfolio/

PAST JOB EXPERIENCE

FIVE GUYS - Fast Food worker | October 2021 - January 2022 | Brussels, Belgium

- Communicated and worked with a team under constant pressure.
- Interacted with clients on a regular basis in French and English

ADDITIONAL REMARKS

I am a Canadian residing in Belgium for my undergrad due to my desire to explore a new continent, culture and immerse myself in French. I am eligible to work in Belgium from July 1, 2023 – October 1, 2024, via the job search year permit, and part time throughout my academic year. I am very open to developing myself in any direction within the domain of computer science. Although I have no experience, I am very eager to learn, and I catch on quickly. I love to work in teams, but I am quite independent. I have an interest in the business side of things and economics.

Interests: philosophy, Dutch and French, psychology, classical music, economics, hiking, writing, ice skating and cooking