Kasra Sina

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TECHNICAL SKILLS

Programming Languages: *Python, C, C++, Java, JavaScript, HTML, CSS, R*

Operating Systems: *Windows, Linux, macOS*

Libraries and Frameworks: NumPy, Pandas, Matplotlib

Development Tools: Git, GitHub, GitLab, Visual Studio Code (VS Code), PyCharm, Nano, Valgrind, Jira, Asana

Other Skills: Combinatorial optimization, heuristic techniques, data visualization, AI ethics, User Experience Design (UX), Research, Object-Oriented Programming (OOP), Microsoft Office

EDUCATION

Bachelor of Computing Honours, Computer Science (Co-op)　　　　　　　2023 Sep – present | Guelph, ON
University of Guelph ✐
- Currently maintaining a **GPA** of **4.0**
- Completing a minor in Political Science.
- College of Engineering and Physical Sciences Dean's Honours List (Fall 2023 and Winter 2024)
- Relevant Coursework: Discrete Structures in Computing II (91%), Linear Algebra (98%), Intermediate Programming
- Key academic project:
  - Car Management System - Intermediate Programming Project (2024):
    - Developed a comprehensive C program for managing a linked list of car data, incorporating dynamic memory allocation, searching, and sorting algorithms.
    - Implemented functionality for adding, loading, searching, and removing car records, ensuring efficient memory management and no memory leaks, verified using Valgrind.

PROJECTS

Portfolio Website ✐　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2024 Mar
Technologies: HTML, CSS, JavaScript
- Developed a responsive and interactive portfolio website to showcase full-stack development skills.
- Used HTML and CSS to implement a responsive design, ensuring optimal viewing across all devices.
- Utilized JavaScript to create dynamic content, enhancing user engagement and interactivity.

EXPERIENCE

Undergraduate Teaching Assistant　　　　　　　　　　　　　　　2024 Sep – present | Guelph, ON
University of Guelph ✐
- Teaching Assistant for Discrete Structures in Computing I (CIS*1910)
- Grading more than 1000 assignments and exams combined.
- Invigilating examinations of more than 500 students.
- Holding regular office hours to provide one-on-one and group assistance to students, clarifying complex concepts and guiding them through coursework.

Indicium Researcher　　　　　　　　　　　　　　　　　　　　　2024 Jan – 2024 Jun | Guelph, ON
STEM Fellowship ✐
- Conducted pioneering research within a multidisciplinary team on optimizing the Traveling Salesman Problem (TSP) for practical applications. Utilized heuristic algorithms and computational methodologies in Python.
- Designed and implemented advanced combinatorial optimization and operations research solutions, leveraging OOP for enhanced code modularity and scalability.
- Represented the University of Guelph at the STEM Fellowship's national Indicium research competition.

Event Facilitator　　　　　　　　　　　　　　　　　　　　　　　　　　2024 May | Guelph, ON
Battle STEM
- Developed and supervised educational activities for high school students to explore coding with AI, understand the fundamentals of ethical AI, and acquire basic HTML skills.

CERTIFICATES

Data Visualization ✐	**Intro to AI Ethics** ✐	**Foundations of User Experience (UX) Design** ✐	**IELTS English Proficiency Exam (Band 8)**
Kaggle (2024)	*Kaggle (2024)*	*Google (2023)*	*The British Council (2023)*