Sharmarke Ismael

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EDUCATION

University of Minnesota Twin Cities

Bachelor of Science in Computer Science

Courses: Algorithms and Data Structures, Advanced Programming, Machine Architecture and Organization, Program Design and Development, Discrete Mathematics, Introduction to Object Oriented Programming, Statistics

SKILLS

Python, Java, C++, C, Assembly x86, OCaml, Git and GitHub, Visual Studios, Atom, IntelliJ, Docker, HTML, CSS, React, Design Patterns, Jira, Agile, Waterfall, Excel, Microsoft, Customer Service, Project Management, Problem Solving

PERSONAL PROJECTS

Drone Simulation System - *C*++, *JS*, *HTML*, *Waterfall*, *Docker*, *Jira*

- Concocted a sophisticated drone simulation system, prioritizing efficient UMN campus trip scheduling and optimizing robot transportation
- Implemented realistic features, including dynamic weather effects and a notification system for user updates
- Showcased expertise in high-performance programming with C++, created engaging interactive interfaces using JavaScript and HTML, and ensured streamlined deployment through Docker

Chess Program - Java, IntelliJ, Git

- Engineered a robust Chess program in Java using IntelliJ and Git, implementing advanced game logic and player-vs-player capabilities
- Utilized 2D Arrays for the chess board and wrote functions to enforce game rules, showcasing proficiency in data structures and algorithms
- Designed a user-friendly GUI with responsive controls, incorporating Unicode characters for visually appealing chess piece representation

Snake Game - Python, Atom, turtle

- Developed a Python-based rendition of the classic Snake game using the turtle graphics module, featuring a 700x700 pixel interactive UI
- Incorporated object-oriented design with core classes representing the game, snake entity, and food pellets, ensuring smooth gameplay mechanics
- Incorporated dynamic user interactions, allowing snake direction control via arrow keys, growth upon consuming pellets, and game-ending checks for collisions

LEADERSHIP

Somalis in Business and Tech - University of Minnesota Twin Cities

Founder and President

- Established a student organization dedicated to empowering the Somali community within business and tech
- Designed and implemented a robust tutoring and mentorship program providing weekly sessions for coursework and project assistance
- Direct a team of 10+ members to complete essential tasks, ensuring organizational momentum and progress

WORK EXPERIENCE

University of Minnesota Twin Cities

Computer Science Teaching Assistant

- Host weekly office hours and lead weekly labs, offering hands-on aid with homework and course-related challenges
- Grade labs, homework, projects, midterms, and final exams, playing a significant role in the evaluation process

Arizona State University

Undergraduate Research Intern

- Developed a detailed interview protocol to delve into diversity issues within the engineering field
- Conducted in-depth qualitative interviews, coupled with a structured coding scheme, ensuring the data analysis yielded strong and actionable insights
- Collaborated with a diverse research team, leveraging individual expertise to drive project advancements, enhance research methodologies, and achieve shared objectives, resulting in more comprehensive and impactful outcomes

Expected Graduation: May 2025 GPA: 3.4/4.0

Jun 2022 - Aug 2022

Jun 2022 - Aug 2022

Jan 2022 - Feb 2022

Jan 2023 - Present Minneapolis, MN

tech

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Aug 2022 - Present

Jun 2023 - Aug 2023

Minneapolis, MN

Tempe, AZ