

Yohannes Hailu

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EDUCATION

University of Nebraska-Lincoln

Bachelor of Science in Honors Computer Science
Bachelor of Science in Honors Math

Lincoln, Nebraska
May 2023
3.67/4

7

EXPERIENCE

Headstarter AI

Software Engineering Fellow

Virtual
July 2024 - September 2024

- Accepted into the competitive Headstarter AI fellowship, a reflection of recognition for technical potential and problem-solving abilities.
- Developed three web-based applications, enhancing both front-end and back-end skills. Maintains and updates the codebase to meet the changing needs of projects.
- Used NextJS, Firebase, and MUI to design and deploy high-performance applications, solving complex challenges such as integration failures and debugging complex frontend issues.
- Integrated LLM APIs to extend project capabilities, overcoming challenges in functionality and troubleshooting, which has considerably improved the usability and automation of the applications.

7 Days Mart

Shop Manager

Council Bluffs, Iowa
July 2023 - August 2024

- Spearheaded business growth through focused marketing campaigns and strategic inventory management, increasing monthly sales from \$100 to \$20,000.
- Conducted customer surveys and analyzed feedback to align inventory with local demand; resulted in noticeable improvements in customer satisfaction and repeat sales.
- Established customer service protocols and trained staff to exceed expectations, fostering customer loyalty. When team members were uncooperative, took charge by running the shop independently, ensuring smooth operations without disruptions.

INVOLVEMENT

Vex U Robotics

Programmer

Lincoln, Nebraska
August 2024 - Present

- Developed exact control algorithms in C++ using the VEX V5 API to optimize remote-controlled movements, overcoming obstacles such as latency and synchronization issues.
- Applied physics and calculus principles to fine-tune robotic movements, improving speed, accuracy, and battery efficiency during competitions.
- Created comprehensive daily reports to document technical processes, ensuring smooth knowledge transfer and effective troubleshooting throughout the project lifecycle.

NASA Suits

Programmer

Lincoln, Nebraska
August 2024 - Present

- Developed augmented reality interfaces to present telemetry data in simulated space environments, directly enhancing user comprehension and decision-making during critical mission scenarios
- Applied UI/UX principles to develop the AR systems to present information clearly, and in a non-convoluted manner to reduce cognitive load navigating through the system
- Iterated on interface designs multiple times through user testing and feedback to ensure optimal performance in extreme, high-stakes environments like space missions.

Other Involvements: Honors Program, NACME, Color Stack, Nebraska Venture Capital, National Society of Black Engineers, Afrikan Peoples Union, African Student Association

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C, C++, C#, Java

Applications/Frameworks: Next.js, MUI, ChatGPT, Unity, Google Suite, Microsoft Suite, Trello, Agile Methodology

Skills: Leadership, Communication, Problem-Solving, Time Management, Conflict Resolution