Yohannes Hailu

Lincoln, NE | 402-905-5385 | yhailu006@gmail.com
www.linkedin.com/in/yohanneshailu | www.yohannes.dev

EDUCATION

University of Nebraska-Lincoln   Lincoln, Nebraska
 Bachelor of Science in Honors Computer Science   May 2027
Bachelor of Science in Honors Math   3.67/4

EXPERIENCE

Headstarter AI   Virtual
Software Engineering Fellow   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 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   Council Bluffs, Iowa
Shop Manager   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   Lincoln, Nebraska
Programmer   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   Lincoln, Nebraska
Programmer   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