Sahir Hameed

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EDUCATION

The University of Texas at Austin, Austin, TX   May 2026
Bachelor of Science, Computer Science, Minor in Business   GPA *3.60*

Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Operating Systems, Probability, Matrices

TECHNICAL SKILLS

Programming Languages: *Java (Spring Boot), Python, C++, C, C#, Javascript(React, Node), CSS, HTML, Ruby, Swift, SQL*
Frameworks & Platforms: *VS Code, Eclipse, Intellij IDEA, PyCharm, Xcode, GitHub, Microsoft Office*

EXPERIENCE

iCode, Southlake, TX **|** *Technical Lead (Teacher Assistant)*   May 2024 - Present
- Promoted STEM education to 20+ students by teaching Java, Python, and HTML while effectively communicating complex technical concepts to individuals with varying skill levels, ensuring efficient company operations.
- Resolved a critical issue with the curriculum by quickly troubleshooting and adapting lesson plans, ensuring minimal disruption and allowing classes to continue smoothly.

Autonomous Robotics Laboratory, Austin, Texas **|** *Research Fellow*   December 2023 - Present
- Coordinated group tasks and worked alongside five students on writing code using GPT-4, Python, and C++ that enables robots to guide humans to designated nodes, eliminating the need for hard-coded directions.
- Gained hands-on experience with test equipment and applied troubleshooting skills to resolve technical issues, ensuring the reliability of the robotic system.
- Conducted validation testing and analyzed test data to ensure the accuracy and reliability of the navigation system.

PROJECTS

Robot Navigation System | OpenAI (GPT-4), C++   September 2023 - Present
- Collaborated with a team of three other peers to create a directed graph of UT Austin's Anna Hiss Gymnasium.
- Engineered a C++-based script for interpreting the graph, creating navigational instructions that can be integrated with GPT-4 for providing precise room directions within the building.
- Achieved an 80% accuracy rate in delivering correct directions to specified destinations on the directed graph.

Recycle Detection Software | Python(YOLO-8), OpenAI (GPT-4), OpenCV, Azure Kinect   March 2023 - April 2023
- Developed a recycling detection algorithm alongside three peers by integrating YOLO-8, OpenCV, and GPT-4 to determine what materials are recyclable.
- Analyzed test data and presented results to the team, driving improvements in detection accuracy.
- Directed system testing using Azure Kinect Video Stream, validating successful real-time object classification and achieving 78% detection accuracy.

EXTRACURRICULARS

UT Austin Robotics Club (ECLAIR), Austin, Texas **|** Python, C++   February 2024 - Present
Autonomous Vehicle Team Member
- Joined a team of six students to design and develop a scaled-down autonomous vehicle.
- Designed and worked to implement a Natural Language Processing (NLP) solution using Python and C++, enhancing user interaction with the autonomous vehicle through voice commands and queries.

Ismaili Muslim Students Association (IMSA), Austin, Texas   September 2022 - Present
Former Vice President Internal Subcommittee (September 2022 - April 2023)
- Boosted event attendance, actively directing community engagement initiatives for over 150 student members.
- Elevated member participation through 15+ bi-weekly meetings, fostering a dynamic and active community.

Awards and Honors

- Texas Leadership Scholars ($14k a year), Dell Scholars ($5k a year), QuestBridge Prep Scholar, Questbridge National College Match Semi-Finalist, AP Scholars