Sahir Hameed

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EDUCATION

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

EXPERIENCE

Medex Surgical, Fort Worth, TX | *IT Intern* — May 2024 – Present
- Developed a sophisticated inventory management system, leveraging VBA and Javascript automation techniques to enhance data accuracy and streamline operational workflows.
- Created clear and detailed technical documents and user manuals, ensuring smooth adoption and effective use of the new system.

iCode, Southlake, TX | *Teacher Assistant* — May 2024 – August 2024
- Promoted STEM education to 20+ students by teaching Java, Python, and HTML while effectively communicating complex technical concepts to individuals with varying skill levels.
- 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, TX | *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.

PROJECTS

Web Page Summarizer | *JavaScript, OpenAI API* | View Code — August 2024
- Developed a Chrome extension that utilizes OpenAI's GPT-3.5-turbo to provide concise summaries of web pages, aimed at enhancing user productivity and information digestion.
- Implemented a user-friendly interface for inputting OpenAI API keys and viewing past summaries, laying the foundation for future enhancements and user feedback integration.
- Structured the project with modularity in mind, allowing for easy updates and potential scaling as user adoption grows.

Pantry Management System | *Next.js, JavaScript, Firebase, LLaMA* | View Code — July 2024 – August 2024
- Built a full-stack pantry app with Next.js and Firebase, allowing users to manage inventory with real-time updates and secure authentication.
- Integrated LLaMA AI for smart recipe suggestions based on pantry contents, enhancing user experience with personalized recommendations.
- Designed a responsive UI for seamless interaction, leveraging JavaScript for dynamic functionality and Firebase for data synchronization.

Recycle Detection Software | *Python (YOLO-8), OpenAI (GPT-4)* | View Code — March 2023 – April 2023
- Developed a recycling detection algorithm by integrating YOLO-8, OpenCV, and GPT-4 to determine what materials are recyclable alongside a team with three peers.
- Directed system testing using Azure Kinect Video Stream, validating the successful real-time object classification and achieving 78% detection accuracy.
- Organized weekly project milestones and deadlines, keeping the team on schedule and promoting effective collaboration.

LEADERSHIP AND EXTRACURRICULARS

Ismaili Muslim Students Association (IMSA) — Austin, Texas
Former Vice President, Internal Subcommittee (September 2022 – May 2023) — *September 2022 – Present*
- Directed community engagement initiatives for over 150 student members, boosting event attendance and participation.
- Organized 15+ bi-weekly meetings to foster a dynamic and active community.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Ruby, Swift
Frameworks: React, Node.js, Next.js, SpringBoot, OpenAPI
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse