Jonah Blackmon

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EDUCATION

The University of Texas at Austin, Austin, TX   May 2028

Bachelor of Science, Computer Science, GPA: 3.91/4.0

Relevant Coursework: Computer Architecture, Data Structures and Algorithms, Probability, Autonomous Robotics

EXPERIENCE

IT Integrations, Fort Worth, TX   May 2025 - August 2025

Intern

- Led the digital migration of healthcare facilities that support 150+ users to a new network system, ensuring smooth deployment and minimal downtime
- Provided on-site troubleshooting and real-time support to resolve hardware and software issues during transition

Autonomous Intelligent Robotics Research, Austin, TX   Jan 2025 - Present

Undergraduate Research Assistant

- Member of UT Austin's Freshman Research Initiative (FRI) program with a focus on autonomous intelligent robotics and their role in human-robot interaction
- Led the development of gesture-based interaction models for industrial robots, exploring social signaling and autonomous behavior in shared workspaces

Levinson Foundation, Santa Fe, NM   Jun 2023 - Present

Next-Gen Board Member

- Appointed to youth board researching and funding activism initiatives; responsible for the disbursement of $100,000 of funding to organizations, as well as attending national conferences and climate advocacy events

PROJECTS

UR5 Human-Robot Interaction Framework:

- Developed a human-robot interaction framework in ROS in which a UR5 robot uses gesture recognition to identify social greeting gestures, respond appropriately, and perform real-time imitation of user movements

QuoteIt - Anonymous Social Media Audio App:

- Developed and published an anonymous social media app enabling real-time audio transcription and quote sharing to the App Store.
- Built full-stack in Swift and Firebase, with background audio capture allowing users to save and transcribe the last 20 seconds of conversation retroactively. Implemented features for exploring, liking, and following, as well as developed the entire UI from scratch using SwiftUI.

Mars Weather Forecasting from NASA API:

- Uses data from NASA's weather API to train a Linear Regression model to forecast future weather conditions as observed by the Curiosity rover at the Gale Crater

Text-to-3D Model Generator:

- Engineered a pipeline that transforms user prompts into animated 3D models by leveraging GPT-generated STL files, with custom implementations of projection matrices and a vertex connectivity algorithm to structure and render primitive geometry

LEADERSHIP & COMMUNITY INVOLVEMENT

ECLAIR Robotics, Austin, TX   September 2024 - Present

Member, C.R.A.C.K.L.E. (Contextual Robotics Arm for Knowledge Learning and Exploration)

- Contributed to gesture detection using Leap Motion and integrated ML algorithms for contextual robotic response

Texas ACM, Austin, TX   September 2024 - Present

Member

- Active participant in software development and algorithm workshops

SKILLS

Languages: Java, Python, Swift, C, C++, Assembly

Tools & Frameworks: ROS, Firebase, SwiftUI, Git, Linux, CAD, OpenCV, AVFoundation