

# Jonah Blackmon

817-724-6500 | [JonahKBlackmon@gmail.com](mailto:JonahKBlackmon@gmail.com)

Austin, TX | [jonahblackmon.com](http://jonahblackmon.com) | [linkedin.com/in/jonahkblackmon](https://linkedin.com/in/jonahkblackmon)

## EDUCATION

**The University of Texas at Austin**, Austin, TX

May 2028

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

Relevant Coursework: Operating Systems, Computer Architecture, Data Structures and Algorithms, Probability for Computer Science, Autonomous Robotics, Linear Algebra, Calculus

## 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
- Spearheaded 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

**CampusNav - Navigation App:**

- Published iOS navigation app for college campuses with building shortcuts and event discovery. Integrated MapBox, Firebase, and SwiftUI to deliver real-time routing and event posting

**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

**Quotelt - Anonymous Social Media Audio App:**

- Published an iOS anonymous social media app enabling real-time audio transcription and quote sharing. 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.

**Text-to-3D Model Generator:**

- Engineered a pipeline that transforms user prompts into animated 3D models by leveraging GPT-generated STL files, with a custom 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++, Javascript, HTML, CSS, Assembly

**Tools & Frameworks:** ROS, React, Firebase, SwiftUI, Git, Linux, CAD, OpenCV, AVFoundation, MapBox, MapKit