

## Eli Weber

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### EDUCATION

#### **Bachelor of Science**, May 2025

The University of Alabama, Tuscaloosa, AL

GPA: 3.72/4.00

Minor in German

Studied Abroad in Lüneburg, Germany, through USAC, Jan 2024 - May 2024

### SKILLS

Coding: Python, C/C++, C#, HTML, CSS, JavaScript, Java, SQL

Technologies: Azure, AWS, Powershell, Docker, Git, ROS/ROS2, Linux, Webots, Google Colab, MATLAB

### SELECT COURSEWORK

Capstone Computing (CS 495), Web Development (CS 330), Data Science (CS 451), Autonomous Robotics (CS 460)

### RELEVANT EXPERIENCE

#### **Cloud Robotics Capstone Project | Puppy Robot with Natural Language Understanding for STEM Education**

- Developed and integrated Python scripts for PuppyPi - quadruped robot with ROS on Raspberry Pi
- Integrated cloud services, including AWS, AWS Lambda, ChatGPT Audio API, and ChatGPT-4o API to transform natural spoken language into robotic control commands in real time
- Collaborated with student development team and sponsor in an agile environment to deliver sprint goals and project results

#### **GymPal | Exercise and Diet Planning Website**

- Built a C# ASP.NET Core web application with Azure in Visual Studio environment
- Designed an interactive user dashboard to track workouts and weight change
- Implemented ChatGPT-4o API to create a diet and exercise schedule and recommend daily recipes based on user's goals and biometric data

### WORK EXPERIENCE

#### **Drone Pilot**, Green Creek Drones, Effingham, IL, May 2022 - Aug 2024

- Piloted and programmed spray drones for precision pesticide application
- Trained and supervised six pilots, troubleshooting technical and operational challenges
- Collaborated with other senior pilots to establish efficient and safe flight protocol
- Designed truck and trailer setup to maximize efficiency and safety

#### **Resident Advisor**, University of Alabama Housing, Tuscaloosa, AL, Aug 2022 - May 2023

- Mentored a dormitory wing of 35 incoming freshmen students
- Managed crisis response, assisting with medical emergencies, dormitory maintenance, and roommate conflicts
- Organized wing and hall-wide social events to foster community engagement

#### **Research Assistant**, Remote Sensing Center, Tuscaloosa, AL, Aug 2021 - May 2022

- Designed and manufactured printed circuit board radars for remote sensing research and applications
- Operated PCB manufacturing tools, including soldering iron, PCB drill, and through-hole plater

### ADDITIONAL EXPERIENCE

#### **Mentor**, The Verb Kind, Tuscaloosa, AL, Aug 2024 - Present

- Mentored young men in Tuscaloosa County Juvenile Detention Center
- Led weekly development sessions to foster essential skills for personal and professional success