

# Brett Eckstrom

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## EDUCATION

*University of South Carolina, Columbia*

**May 2029**

**Major:** Computer Science, **Concentration:** Artificial Intelligence

**GPA:** 4.0

**Minors:** Mathematics, Business Administration

**Awards/Honors:** Palmetto Life Scholarship (\$5,000)

## TECHNICAL PROJECTS

### 2D Platformer Game

- Built a 2D platformer in Python using the **Pygame** library with **400+ lines of optimized game logic**, implementing custom physics (gravity, acceleration, deceleration, speed capping) that processed **70+ frames per second** for smooth gameplay.
- Applied object-oriented design to structure player behavior, platform management, and game state, reducing code duplication by **30%+** and improving maintainability.

### Arduino Sensor & IR Control System

- Developed a distance-measurement system using ultrasonic sensors, designing an algorithm that captured and processed **20–30 real-time readings per second** and displayed results on a custom LED module with high accuracy within a 2–300 cm range.
- Programmed an infrared remote control system capable of sending **8 unique IR command signals** to operate basic home appliances, improving functionality reliability through error-checked signal encoding and sensor calibration.

### Ella Shumate Memorial Foundation Website | Non-Profit Developer

- Built a fully responsive website using **TypeScript, React, and Next.js**, improving load performance and accessibility while supporting **100% mobile, tablet, and desktop compatibility** for public users.
- Used Jira to organize and manage development tasks across **multiple 1–2 week sprints**, creating and assigning **20+ tickets** covering UI development, testing, deployment, and feature enhancements.

## WORK EXPERIENCE

### Front Service Clerk | Publix

May 2024 – September 2025

- Processed an average of **80** transactions per shift while accurately balancing cash drawers and point-of-sale operations
- Trained and supported **10+ new employees** by teaching POS procedures, bagging standards, and store policies, helping reduce onboarding time by an estimated **20%**.
- Provided high-quality customer service to **hundreds of shoppers daily**, resolving questions and issues to maintain smooth front-end operations during peak hours.

### General Laborer | Tennico Tennis of Columbia

May 2021 – August 2023 (Summers)

- Assisted with various construction and maintenance tasks requiring attention to safety and efficiency.

## LANGUAGE/TECHNICAL SKILLS & INTERESTS

ENGLISH : Native      Spanish : Oral | Novice : Reading | Intermediate : Writing | Intermediate

Tools & Platforms: Git, Scrum, Jira, VS Code, Figma

Web Development: React, Next.js, Tailwind CSS, JavaScript, TypeScript

Interests: Tennis, Game Development