

# Trey Israel

☎ 864-978-4905   ✉ [treyisraeliii@gmail.com](mailto:treyisraeliii@gmail.com)   🔗 [linkedin.com/treyisrael](https://www.linkedin.com/treyisrael)   🐙 [github.com/treyisrael7](https://github.com/treyisrael7)

## Education

### Clemson University

Clemson, SC

*Bachelor of Computer Science, Minor in Financial Management*

*December 2025*

- **Cumulative GPA:** 3.7/4.0
- **Relevant Coursework:** Computer Organization, Design and Analysis of Algorithms, Data Structures and Algorithms, Discrete Structures, Software Development Foundations, Software Engineering, Data Science, Artificial Intelligence
- **Awards:** Dean's List Fall 2022, President's List Spring 2023, President's List Fall 2023

## Experience

### Clemson University

Clemson, SC

*Student Researcher*

*March 2024 – Present*

- Building NLP and static code analysis tools to detect privacy non-compliance in 800+ apps
- Automated privacy policy generation directly from app code, reducing manual effort in regulatory compliance
- Scraped and analyzed sentiment from 100 Reddit posts, processing 3,679 comments using VADER Sentiment Analysis to assess public consensus on privacy policies

### WebstaurantStore

Remote

*Software Engineering Intern*

*May 2024 – August 2024*

- Contributed to the development of Cicero, a React-based single-page application (SPA) using TypeScript, Ant Design, and C#, streamlining test case and test plan management for the QA department
- Developed and implemented over 15 features and bug fixes, enhancing functionality and user experience across multiple departments
- Refactored API calls to improve system responsiveness and reduce unnecessary requests, optimizing performance
- Facilitated automation and management of over 1,000 test plans across 10+ departments
- Handled releases and deployments using CI/CD pipelines in Azure DevOps, integrating products for smooth rollouts
- Collaborated in an Agile team, contributing to code reviews and pair programming for better code quality

## Projects

### Reinforcement Learning for Autonomous Driving | MetaDrive, Python, PPO, SAC

January 2025 – Present

- Training and developing reinforcement learning agents to navigate diverse driving environments using PPO and SAC in the MetaDrive simulator, achieving 90%+ lane-following accuracy
- Implementing, fine-tuning, and comparing RL models to improve driving efficiency, stability, and decision-making in autonomous navigation tasks
- Engineering a custom simulator extension to support real-time multi-agent RL training and adversarial testing

### Clemson Athletic Store API | AWS Lambda, API Gateway, DynamoDB, Postman

September 2024 – November 2024

- Deployed and designed a scalable serverless API architecture using AWS Lambda and API Gateway, handling simulated order processing with millisecond-level response times
- Established 30+ RESTful API endpoints, ensuring scalability and seamless AWS integration
- Implemented API validation and structured error handling, achieving 99.9% endpoint reliability through automated Postman testing with 100+ test cases
- Secured API access with authentication mechanisms, ensuring safe order transactions, status updates, and account verification

### Personal Portfolio Website | Next.js, Tailwind CSS, Framer Motion

August 2024 – September 2024

- Constructed a personal website portfolio using Next.js, Tailwind CSS, and Framer Motion, showcasing a modern and visually appealing design
- Incorporated smooth animations and transitions with Framer Motion to enhance the interactivity and visual appeal of the site
- Designed the website with responsive layouts, ensuring optimal display across various devices and screen sizes

## Technical Skills

**Languages:** C, C++, C#, Java, JavaScript, TypeScript, Python, R, SQL, HTML, CSS

**Technologies/Frameworks:** React, Next.js, Node.js, Angular, AWS, DynamoDB, MySQL, Postman, Rancher Desktop, Git

**Developer Tools:** Visual Studio Code, IntelliJ, Visual Studio, GitHub