

Trent Conley

Eligible for U.S. security clearance | (650)-714-1773 | tconley7@gatech.edu | github.com/TrentConley | trentconley.me

EDUCATION

Georgia Institute of Technology **Atlanta, GA**
Candidate for M.S. in Computer Science May 2026

Georgia Institute of Technology **Atlanta, GA**
B.S. in Computer Science May 2025
• **Computer Science Concentration:** Intelligence and Information Internetworks **GPA: 3.93**
• **Relevant Coursework:** Algorithms, Systems & Networks, Computer Vision, Databases, Robotics

WORK EXPERIENCE & RESEARCH

Mach Industries **Huntington Beach, CA**
Software Engineering Intern May 2024 – August 2024

- Developed fast, accurate model of complex aerodynamic dataset for 6DOF flight dynamics by creating hash function resulting in $<1\mu\text{s}$ lookup time, allowing Mach to use high dimensional aero data.
- Created comprehensive unit tests ensuring accuracy across 1M+ data points.
- Led a team of three interns to build scalable, distributed framework for Monte Carlo simulations of any aircraft.
- Received full-time offer.

Viasat **Carlsbad, CA**
Software Engineering Intern May 2023 – August 2023

- Automated Viasat's manual program management processes, achieving data capture of over 100+ programs and improving efficiency by developing a comprehensive tool based on Angular frontend and Node backend.
- Streamlined the integration of existing documents by developing a Python-to-SQL conversion script, enabling non-developers to update the codebase effortlessly.

Oak Ridge National Laboratory (ORNL) **Oak Ridge, TN**
Principal Investigator June 2021 – May 2022

- Simulated a Brownian Ratchet, a theoretical nanodevice that explores the limits of thermodynamic principles.
- Allocated 1,000 CPU hours by ORNL committee after evaluation for feasibility, potential for high-impact science.
- Presented research findings of Brownian Ratchet mechanical breakdown to audience of over 100 people.

PROJECTS & EXTRACURRICULAR ACTIVITIES

Blockchain Club at Georgia Tech **Atlanta, GA**
President September 2022 – January 2024

- Facilitated blockchain education for 50+ students annually, leading them to win over 10k in bug bounty rewards each semester and publishing paid protocol research.
- Managed a governance delegation exceeding \$3M across major platforms like dYdX, Arbitrum, Optimism, and Rocket Pool, emphasizing the club's significant influence in the blockchain community.

Web3ATL Hackathon **Atlanta, GA**
Winner November 2023

- Competed in hackathon of over 175 hackers, winning first place in the Revest track, receiving prize of over \$7,000.
- Coded token streaming with Revest Financial NFTs, making Revest competitive to companies like Sablier Finance.

Real-Time Eye-Controlled Drone **Atlanta, GA**
Personal Project August 2023

- Engineered an eye-controlled navigation system for DJI Tello Edu drone, using real-time eye tracking via webcam.
- Reduced drone response latency by 3x, as measured by the time between drone video capture and drone response, by optimizing the eye-gaze input capture and processing pipeline.
- Achieved 99.6% accuracy in eye-gaze classification, as confirmed by successful navigation through an obstacle course, by implementing a custom Convolutional Neural Network (CNN) and error-smoothing logic.

SKILLS & INTERESTS

Technical Skills: Rust, Python, Java, C, C++, SQL, JavaScript, CSS, HTML, Solidity, AWS EC2, Angular, Bash, Flask, Git, Langchain, MongoDB, NodeJS, NumPy, OpenCV, Pandas, PyTorch.

Interests: Space exploration, running, basketball, philosophy, weightlifting, drones, chess, guitar.