

Ethan R. Caldwell

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Computer science senior focused on distributed systems and applied machine learning; seeking a software engineering role starting summer 2027.

EDUCATION

May 2027 **Carlisle University**, Cambridge, MA
A.B. in Computer Science, Secondary in Statistics
GPA: 3.91/4.00; Dean's List (all semesters)
Relevant Coursework: Distributed Systems, Machine Learning, Algorithms, Operating Systems, Probability
Thesis: Low-latency consensus for edge clusters (advisor: Prof. L. Moreno)

RESEARCH

Sep 2026 – May 2027 **Senior Thesis**, Cambridge, MA
Carlisle Systems Lab

- Designing a geo-aware leader election protocol; prototype evaluated on 120 simulated nodes.

EXPERIENCE

Jun 2026 – Aug 2026 **Software Engineering Intern**, New York, NY
Northwind Analytics

- Built a streaming ingestion service in Go handling 40,000 events per second; cut end-to-end lag by 62%.
- Designed load tests and dashboards adopted by two partner teams.
- Presented design review to 30 engineers; merged 18 pull requests into production.

Sep 2025 – Present **Undergraduate Research Assistant**, Cambridge, MA
Carlisle Systems Lab

- Implemented a Raft variant in Rust; reduced leader-election time by 35% in 50-node simulations.
- Co-authoring a workshop paper on edge consensus (under review).

Jun 2025 – Aug 2025 **Data Science Intern**, Boston, MA
Bluepeak Labs

- Trained gradient-boosted churn models on 2M records; improved recall by 11 points over baseline.

LEADERSHIP & ACTIVITIES

Sep 2024 – Present **Workshop Lead**, Cambridge, MA
Carlisle Women & Allies in Computing

- Teach weekly Python workshops to 60 first-year students; designed a 10-week curriculum.

Sep 2023 – May 2025 **Athlete**, Cambridge, MA

Varsity Rowing

- Trained 20 hours per week while maintaining Dean's List standing.

PROJECTS & SERVICE

2024 – Present **Maintainer**, GitHub

Open-source: tinyraft

- Rust library for teaching consensus; 900 stars, 25 contributors, used in two university courses.

2024 **Lead Developer**, Carlisle University

Campus Shuttle Tracker

- Real-time shuttle map used by 3,000 students a week; built with Go, Postgres and a small React front end.

PUBLICATIONS & PRESENTATIONS

Caldwell, E., & Moreno, L. (2026). Fast leader election at the edge. Workshop on Edge Systems (under review).

Caldwell, E. (2025). Benchmarking consensus libraries. Undergraduate Research Symposium, poster.

HONORS & AWARDS

- Undergraduate Research Fellowship (2025)
- First place, Carlisle Hack Week (2024)

SKILLS & INTERESTS

Technical: Go, Rust, Python, C++, SQL, Kubernetes, PyTorch, AWS

Languages: English (native), Spanish (proficient)

Interests: Long-distance running, chess openings, restoring film cameras