

# 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

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### Carlisle University

Cambridge, MA

*A.B. in Computer Science, Secondary in Statistics*

May 2027

*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

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### Senior Thesis

Cambridge, MA

*Carlisle Systems Lab*

Sep 2026 – May 2027

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

## EXPERIENCE

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### Software Engineering Intern

New York, NY

*Northwind Analytics*

Jun 2026 – Aug 2026

- 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.

### Undergraduate Research Assistant

Cambridge, MA

*Carlisle Systems Lab*

Sep 2025 – Present

- 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).

### Data Science Intern

Boston, MA

*Bluepeak Labs*

Jun 2025 – Aug 2025

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

## LEADERSHIP & ACTIVITIES

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### Workshop Lead

Cambridge, MA

*Carlisle Women & Allies in Computing*

Sep 2024 – Present

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

### Athlete

Cambridge, MA

*Varsity Rowing*

Sep 2023 – May 2025

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

## SKILLS & INTERESTS

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

**Languages:** English (native), Spanish (proficient)

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