

# ETHAN STERLING

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## EDUCATION

### Northwestern University

Evanston, IL

*Bachelor of Arts in Computer Science and Economics, Minor in Data Science*

*Expected June 2026*

Cumulative GPA: **3.74/4.00** | Dean's List | Honors Math Program | Summer Internship Grant Recipient

Coursework: Data Structures, AI, Linear Algebra, Multivariable Calculus, Discrete Math, Econometrics, Game Development, Data Science & Machine Learning, Computer Systems, Languages, Data Visualization, Algorithms, Database Systems

## TECHNICAL SKILLS

**Programming languages:** Python, Java, C, C++, JavaScript, SQL, STATA, Swift, C#, R, x86-64 Assembly

**Software and technologies:** Pandas, NumPy, Matplotlib, AWS, Git, Unity, Unix shell, Xcode, Visual Studio, POSIX, APIs

## RELEVANT EXPERIENCE AND PROJECTS

### Fulminare Holdings

San Diego, CA

*Software Engineering Intern*

*June 2023 – September 2023*

- Wrote programs in Swift for data imports from other apps to improve user transitions to poker bankroll tracker
- Marketed app by creating a Twitter bot to post daily threads and by posting daily videos on TikTok resulting in an increase of over 8000 app users
- Conducted market research on fitness apps to help inform and provide feedback for new app development

### Computer Systems Course

Evanston, IL

*SETI Lab*

*Fall 2023*

- Optimized a signal processing code base by parallelizing using POSIX thread libraries, AVX-512 SIMD vector instructions, the OpenMP API, and compiler optimizations for a total speed-up of 60x

### Artificial Intelligence Course

Evanston, IL

*Classifier*

*Spring 2023*

- Implemented an advanced perceptron-based classifier for smartphone password input using accelerometer data

### Data Structures and Algorithms Course

Evanston, IL

*Trip Planner*

*Winter 2022*

- Engineered a robust trip planning API for efficient routing and comprehensive search on extensive map data
- Selected efficient data structures and algorithms to optimize each functions time and space complexity

## LEADERSHIP AND WORK EXPERIENCE

### NU Track Club

Evanston, IL

*Fundraising Chair*

*September 2022 – Present*

- Lead fundraising committee to coordinate alumni outreach, website management, gear sales, and fundraising
- Organized lucrative profit-sharing fundraisers to bolster team resources and financial growth

### Mayfest Productions

Evanston, IL

*Producer, Production Assistant (November – August 2023)*

*August 2023 – Present*

- Collaborate with vendors to supply equipment for Dillo Day, the nation's largest student-run music festival
- Lead crewing for day of festival and manage all artist hospitality by fulfilling riders and flipping trailers
- Communicated with IT to assure WiFi was set up and ran smoothly day-of for over 12,000 attendees and 11 artists

### Midtown Athletic Clubs

Chicago, IL

*Lead Lifeguard, Lifeguard and Deckhost (June – September 2021, June - September 2022)*

*June 2023 – September 2023*

- Supervised swimmers, enforced rules, and rescued distressed swimmers using first aid and CPR to ensure safety
- Onboarded new lifeguards and managed schedules to maintain smooth operations and respond to active situations

## ADDITIONAL

**Interests & Activities:** Running, Music production, DJing, Skiing, Video Games, Weight lifting, Undergraduate Economics Society, Undergraduate CS Society, AI Club, Responsible AI Student Organization, Beta Theta Pi (President, Founding Father)

**Languages:** Spanish (Illinois State Seal of Biliteracy), Hebrew (limited)