

Ejean Kuo

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EDUCATION

Northwestern University

Evanston, IL

BA in English Literature and Computer Science (Concentration: Artificial Intelligence)

June 2027

- **GPA:** 3.93; Dean's List 7/7 Quarters; Kaplan Institute Scholar
- **Coursework:** Computer Systems (C, x86-64), AI (Python), Computer Programming (C, C++), Scalable Software Architectures (Cloud-Native), Data Structures & Algorithms, Object-Oriented Programming, Human-Computer Interaction

EXPERIENCE

Climate Action Evanston

December 2024 – June 2025

Software Engineer Intern

Evanston, IL

- Designed a full-stack tracking form and data display page for a non-profit's website supporting 2500+ users, centralizing data collection and visualization into one location, cutting redundant manual updates and streamlining staff workflows by 40%
- Built Node.js/Express backend with PostgreSQL/Supabase, implementing Multer file validation and 5 REST API endpoints
- Led product integration into existing system by producing clear handoff documentation and iterating on UI/UX design through structured feedback sessions with non-technical staff, ensuring usability across diverse, cross-functional teams
- Collaborated in an Agile team of 6, using Git for version control and Jira/Confluence for sprint planning and documentation

Department of Computer Science, Northwestern University

May 2025 – Present

Undergraduate Researcher

Evanston, IL

- Formalized 4 foundational properties of strongly regular graphs in Rocq (formerly Coq) and built verified example generators in OCaml, with active development towards contributing results to Rocq's open-source GraphTheory library
- Analyzed graph theory texts and existing Rocq formalizations to choose definitions and lemmas used in proofs

PROJECTS

Letterboxd Wrapped | TypeScript, React, Node.js, Express

Winter 2026

- Built a full-stack web application that generates personalized year-end analytics and summaries for Letterboxd users
- Implemented REST APIs with Node.js/Express to fetch, parse, and transform raw HTML data via Axios into structured JSON
- Delivered structured data to a React/TypeScript frontend displaying ratings and viewing patterns with personalized comments

Ranklit | Figma, Swift, Supabase, Open Library API

Summer 2025 – Present

- Built a full-stack iOS app for book logging with curated lists and personalized ratings through a pairwise ranking algorithm
- Programmed 2 user-specific lists (Favorites, Want to Read) backed by Supabase RLS and book data from Open Library API
- Integrated Supabase authentication with email and username sign-up, leveraging JWT-based sessions for secure user access

Ejean's Website | React, JavaScript, HTML, CSS, Vercel

Fall 2025

- Constructed a personal website with 6+ features including client-side routing across 5 pages, an interactive email form for direct messaging, animated typewriter text, and downloadable résumé PDFs for a seamless and dynamic user experience
- Deployed site on Vercel with a custom domain and ensured full responsiveness across desktop and mobile devices

CTA Bus Tracker | C, C++

Fall 2024

- Created a navigation tool for an open street map of Evanston, listing the 3 closest buses to a given building with arrival times
- Parsed map files using TinyXML to extract geospatial coordinates and reconstruct shortest building-to-bus-stop paths
- Integrated Chicago Transit Authority's API to retrieve real-time bus locations and proximity to bus stops and buildings

LEADERSHIP & EXTRACURRICULARS

Develop & Innovate for Social Change

Spring 2025 – Present

VP of Finance

Northwestern University

- Secured 5 grants totaling \$6,500 in 2 months, a 160% increase in funding impacting 300+ students and 30+ industry clients
- Led purchasing operations through budget tracking, oversight of 4 bank accounts, and managing approvals and reimbursements

Mock Trial

Fall 2023 – Present

Collegiate Mock Trial Competitor

Northwestern University

- Competed at UCLA, Georgetown, and UChicago and won 8th place at AMTA's 2025 National Championship Tournament
- Presented 7-min openings and cross examinations, demonstrating persuasive speaking, quick improvisation, and articulation

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, C++, C, Swift, HTML, CSS

Frameworks & Libraries: React, Express, SwiftUI, NumPy, Axios, GTest

Tools & Platforms: Git, Node.js, AWS (RDS, S3), MySQL, PostgreSQL, Supabase, VS Code, Docker, Figma, Coq/Rocq