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%
- 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
- Developed a RESTful API using Node.js/Express to classify and route volunteer submissions across 6 program areas
- Coordinated Git version control with a team of 6 interns, establishing consistent collaboration and development practices

Department of Computer Science, Northwestern University **May 2025 – Present**

Undergraduate Researcher *Evanston, IL*

- Formalized 4 foundational properties of strongly regular graphs in Rocq and built verified example generators, with active development toward 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

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

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
- Developed user authentication flows (Log In/Create Account) with email + username support, syncing data to Supabase

Pacman Trainer | *Python* **Summer 2025**

- Trained reinforcement learning and neural network agents to improve decision-making, tuning hidden layer sizes and learning rates to achieve ∼60% higher policy performance over baseline heuristic agent
- Engineered an A* pathfinding engine with Tkinter visualizations to generate optimal navigation routes for Pacman agent

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 bus 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
- Planned and launched the 2026 Discover Program, matching 45 students with Chicago-area organizations to build web apps
- 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 & Interests

Languages: Python, C++, C, Swift, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks & Libraries: React, Express, SwiftUI, GTest, NumPy, Beautiful Soup
Other Tools & Technologies: Git, AWS, Node.js, Jira, Linux, VS Code, Docker, Figma, Supabase, Coq/Rocq, Excel