

Arthur Zakrzewski

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EDUCATION

Northwestern University

B.A. in Computer Science and Mathematics

Expected Graduation: June 2028

Evanston, IL

- **GPA:** 3.83/4.0 | **Dean's List:** 3/3 | **SAT:** 1550
- **Relevant Coursework:** Fundamentals of Computer Programming (Racket, Python, C/C++), Data Structures and Algorithms, Multivariable Calculus, Engineering Analysis 1, Design Thinking and Communication

EXPERIENCE

Student Holdings

June 2025 – Present

Software Engineering Intern

Evanston, IL

- Leading development of Coupon NU, an in-house student coupon startup, while holding the internal CTO title
- Architecting a backend using Supabase and FastAPI for authentication, subscriptions, and webhook processing
- Building a mobile React Native MVP in TypeScript, integrating Google OAuth and RevenueCat services
- Designing a cohesive Figma design system in collaboration with internal leadership to guide product development

Aldridge Electric

June 2024 – September 2024

Project Management Intern

Des Plaines, IL

- Headed intern group in auditing 1000+ electrical drawings and daily reports, recovering \$200,000+ of revenue
- Created spreadsheet template with individual item quantity documentation, streamlining the item totaling process
- Compiled 7 construction invoices, structure foundation estimates, and dig site reports, facilitating project efficiency

Prospect Airport Services

June 2022 - August 2022

Passenger Service Assistant

Chicago, IL

- Cared for 100+ disabled flyers through the arrival and departure process at O'Hare's international terminal
- Guided 12 flyers through frustrating procedures surrounding canceled flights and rebooked overnight layovers

PROJECTS

Counter-Strike Case Risk Engine | C++, Python

- Building a multithreaded Monte Carlo simulation engine to estimate Counter-Strike case opening profitability
- Integrating Python scripts to retrieve live skin prices from third-party APIs and visualize expected returns

CTA Bus Tracker | C++, cURL

- Created a program that parses OpenStreetMap data to identify buildings and output their nearby bus stops' data
- Implemented binary search to efficiently parse thousands of map nodes, to calculate precise building locations
- Utilized the CTA Bus Tracker API to source real-time predictions on bus arrival times to bus stops

Real-Time Counter-Strike Inventory Price Dashboard | TypeScript, React, Tailwind CSS, Supabase

- Built an interactive dashboard to track and display real-time price changes in a user's Counter-Strike inventory
- Utilized Steamwebapi for price data, Recharts for data visualization, and Steam Web API for user identification
- Leveraged Supabase to store user inventory value data, enabling historical tracking and data visualization

The Recyclery Website | TypeScript, React, Tailwind CSS, Supabase

- Collaborated with 6 developers to design and develop an informational website for a local non-profit bicycle shop
- Leveraged Supabase to handle admin authentication and implement an API used to store and update image data
- Presented a design and technical spec to the client, and revised project trajectory based on biweekly meeting input

TECHNICAL SKILLS

Languages: C, C++, Python, TypeScript, MATLAB, Racket, L^AT_EX

Technologies: React, React Native, Node, Express, FastAPI, Expo, Tailwind CSS

Developer Tools: Git, VS Code, Supabase, Valgrind, Figma, GDB, Makefile