

# 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 | **Activities:** Kappa Theta Pi, Design + Innovate for Social Change
- **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*

- Drove initial design and development of a React Native mobile platform housing coupons for local small businesses
- Architected backend using Supabase with Google OAuth authentication and RevenueCat for subscription handling
- Designed an end-to-end UI/UX design system in Figma, guiding future development and a smooth user experience

### 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 the frustrating procedures surrounding cancelled flights and overnight layovers
- Maintained a calm demeanor during high-stress situations, contributing to a pleasant airport environment

## PROJECTS

### CTA Bus Tracker | C++, cURL, CTA Bus Tracker API

- 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, TailwindCSS, 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, TailwindCSS, 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:** Python, C++, C, TypeScript, JavaScript, HTML/CSS, MATLAB, Racket, L<sup>A</sup>T<sub>E</sub>X

**Technologies:** React, Node, Express, APIs, Make, GDB, TailwindCSS

**Developer Tools:** Git, VS Code, Supabase, Valgrind, Figma