

# Matthew Ju

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## Education

### University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science & Statistics — GPA: 3.80/4.00

Expected May 2027

Champaign, Illinois

## Projects

### ListingLab - Market Analytics Platform ([listing-lab.vercel.app](https://listing-lab.vercel.app))

December 2025 – Present

Python, Flask, OAuth 2.0, Chart.js, HTML/CSS/JS

- Built and deployed a full-stack web application on Vercel using OAuth 2.0 to aggregate live eBay Browse API data and apply IQR-based outlier filtering for cleaner market distributions
- Developed an interactive analytics dashboard in JavaScript with Chart.js to summarize live listings into pricing distributions, condition breakdowns, and time-series trends not available in standard eBay search
- Designed a streamlined search and results experience with persistent client-side history and clear loading feedback to support efficient market exploration

### Locked-In Toolbox

October 2025

React, TypeScript, Supabase, SQL, REST APIs

- Developed a full-stack productivity application using React, integrating a Supabase backend for secure data storage and authentication
- Built data-driven UI components to visualize user study activity and calendar insights through interactive metric dashboards

### PokeNotify Auto Link Opener

July 2025

JavaScript, Chrome Extensions, DOM

- Developed a JavaScript Chrome extension that monitors Discord webhook channels and automatically triggers instantaneous browser actions without manual input

## Technical Experience

### AbbVie

June 2024 – August 2024

North Chicago, Illinois

Data Engineering Intern

- Built a real-time manufacturing data pipeline reading sensor data from industrial equipment over ethernet and wireless networks into Python-based processing workflows
- Implemented streaming signal processing in Python (NumPy, Pandas) using moving average and median filters to denoise sensor signals and flag experimental anomalies in near real time
- Developed automated data extraction and visualization, reducing experimental processing time by 50%

## Skills

**Programming Languages:** Python, C++, JavaScript, Java, SQL, HTML/CSS

**Frameworks & Tools:** Flask, REST APIs, OAuth 2.0, Vercel, Chart.js, React, Tailwind, Supabase

**Data & Analytics:** Pandas, NumPy, scikit-learn, Matplotlib

**Coursework:** Data Structures & Algorithms, Software Design, Linear Algebra, Computer Architecture, Numerical Methods, Probability & Statistics II

## Additional Experience

### YJ Consulting

May 2025 – Present

Co-Founder & Web Developer

Vernon Hills, Illinois

- Led client restaurant website modernization and digital menu optimization using sales data, leading 37% site viewership and 8% sales increases

### E-Commerce Store

2019 – Present

Independent

Vernon Hills, Illinois

- Managed logistics, sourcing, and pricing for a high volume eBay store, maintaining a 100% positive seller rating over 5 years, achieving \$200,000 in sales across all platforms

### Champaign Urbana Business and Engineering (CUBE) Consulting

February 2025 – Present

Technical Consultant

Champaign, Illinois

- Led feasibility analysis for a student startup's SaaS platform to define tech and financial requirements and website planning for an on campus cafe