Ethan Wu

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Education

Purdue University West Lafayette, IN
B.S., Double Major in Data Science & Applied Statistics; Minor in Management (GPA: 3.3) *May 2028*

- John Martinson Honors College
- Relevant Coursework: Problem Solving and Object-Oriented Programming (CS180), Python Programming (CS 38003), Multivariate Calculus (MA261), Linear Algebra (MA351), STAT 355 (Statistics for Data Science)

Experience

3N Consulting Bethesda, MD (Remote)
AI & Business Analyst Intern *Sep 2026 – Present*

- Helped develop 3N's AI-enabled sales engine by refining agentic workflows used to vet opportunities, make pursuit decisions, plan staffing and teaming, develop pricing and proposals, and organize proposal assets.
- Informed business development and geographic expansion by researching public-sector and federal contracts, identifying agencies eligible to use each contract, and mapping decision-makers and contact information for targeted outreach.
- Promoted 3N's market presence by developing client-facing flyers and capability statements and coordinating approved email outreach, social media posts, and press releases to communicate company news and services across multiple channels.

Purdue University Department of Computer Science West Lafayette, IN
Undergraduate Teaching Assistant *Aug 2026 – Present*

- Supported 100 CS193 students through timely coursework feedback, evaluating their understanding of programming tools and course material as part of Purdue's teaching team.
- Helped students resolve programming roadblocks in weekly Practice, Study, Observe (PSO) office hours through hands-on instruction in Git, terminal use, debugging, version control, and software development workflows covered in CS193.

Eskenazi Health Hospital Indianapolis, IN
Summer Intern *Jun 2022 – Jul 2023*

- Translated patient and community healthcare access needs into patient-centered solutions and program designs by partnering with healthcare professionals, tailoring proposed approaches to the barriers facing hospital patients.
- Led a team of 10 interns to launch a healthcare access initiative supporting 50+ Chinese-American patients, collaborating with a medical translator to improve patient outreach and engagement while addressing language-related access barriers.

Projects

Virtuoso | *Python, JavaScript, HTML/CSS, Tableau, mido, music21* Oct 2026

- Built a Python pipeline to analyze 28,108 violin notes across 25 movements and 9 works, measuring rhythmic density, simultaneous notes, high-register frequency, and melodic leaps to create a weighted technical index.
- Developed a browser-based app with MIDI/MusicXML analysis, interactive comparisons, adjustable weights, and CSV/JSON exports; generated datasets for Tableau and processed uploaded scores locally for privacy.

AD4PT | *JavaScript, HTML/CSS, Python, Flask, React, SQL, Tableau* Mar 2026 – Apr 2026

- Enabled real-time monitoring of cadence, stride, stability, and movement synchronization by building a full-stack neuroadaptive rehabilitation platform that processed simulated wearable sensor data using Python, Flask, React, and SQL.
- Made patient movement trends and rehabilitation metrics easier to interpret through Tableau dashboards, while collaborating with business professionals to evaluate the platform's market potential and practical applications.

Leadership & Involvement

Asian Student Union Board West Lafayette, IN
President *May 2026 – Present*

- Delivered four major events for Purdue's Asian student community of 5,000+ by planning event activities, coordinating timelines and resources, and managing execution to support community programming and student involvement.
- Aligned student committees around shared event and project goals while overseeing 20+ cultural organizations at Purdue, delegating responsibilities, monitoring progress, and maintaining clear communication across participating student groups.

Launchpad West Lafayette, IN
Mentor *Aug 2026 – Present*

- Supported an underclassman's academic progress and project development through 1-on-1 mentorship in Purdue's CS Department, helping the student plan and build a project while providing guidance on coursework and involvement.
- Helped build peer connections within Purdue's computer science community by partnering with another mentor to lead a student group, providing academic support and guidance on professional development through the mentor group.

Technical Skills

Languages & Frameworks: Java, Python, R, SQL, JavaScript, React, Flask, HTML/CSS
Libraries: pandas, NumPy, Matplotlib, SciPy, scikit-learn, seaborn, Beautiful Soup, mido, music21
Data & Visualization Tools: Power BI, Tableau, Microsoft Excel, Google Suite, Git/GitHub
Certifications: Databases and SQL for Data Science with Python Certification via IBM, AI Fluency Certification via Anthropic