

# Chris Xu

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## EDUCATION & HONORS

University of Illinois Urbana-Champaign, Grainger College of Engineering

Expected May. 2027

Bachelor of Science in Computer Engineering

GPA: 3.96/4.0

New Trier High School

Aug. 2020 - May 2024

Honor Roll, AP Scholar with Distinction, National Merit Scholarship Semi-Finalist, Eagle Scout, Debate Club

GPA: 5.0 | ACT: 35

## PROFESSIONAL WORK EXPERIENCE

Software Engineer

Sept. 2025 - Present

Tanda Biotech

Champaign, IL

- Currently working with startup Tanda Biotech on a computer visioning system for biochemical manufacturing
- Designed proprietary system for image preprocessing and detection with OpenCV2 to read dials and flasks.
- Software currently in use during a Tangential Flow Filtration system to create various pharmaceuticals

Software Engineer

May. 2025-Present

Power Electronics International

East Dundee, IL

- PE Website:
  - Led full-stack development of company website improving SEO, increasing turnover rate, and reducing load times
  - Programmed unique ChatGPT Agent to act as a user chatbot to aid in customer questions
  - Programmed in Vue/Vuetify/Nuxt3 frontend with a NodeJS + Express backend with CI/CD pipeline on Azure
- ECT (Engineering Change Tool):
  - Helped on optimized backend architecture, enabling scalable processing of BOM data in MSSQL
  - Automated deployment and development with Microsoft Azure
- Easy-Acumatica Python Package
  - Developed an open source python package to interface with the Acumatica REST API
  - Assisting development in an agentic interface that integrates with Acumatica and Easy-Acumatica

## LEADERSHIP & INVOLVEMENT

IEEE Stock Simulator

Sept. 2025 - Present

Software Engineer | IEEE EOH Project

Champaign, IL

- Currently developing a stock simulator using python and SQL using the Monte Carlo equation
- Assisting on data preprocessing and communication between multi-threaded CPU applications, SoC, and FPGA hardware
- Planned on presenting at EOH 2026

Illinois Medical Advancements through Design & Engineering (i-MADE)

Sept. 2024 - Present

Software Engineer | Stealth Project

Champaign, IL

- Stealth Project: Worked with on campus startup, Stealth, to create a ML model. Presented at Cozad & URS
- Utilized the SciPy package & NumPy to train an SVM model to determine muscle fatigue & optimal training intervals.

## RESEARCH & PROJECTS

Meme Coin Price Prediction Model

May. 2025 - Present

- Using various APIs and Tensorflow, developed a model to predict the price of a meme coin based upon social media buzz
- Used the NLTK "Vader" model for NLP to determine how positive or negative a social media post is.

Personal Portfolio Website

Apr. 2025 - Present

- Created own personal website to house personal and resume information
- Programmed with React frontend with a nodejs backend, hosted on Vercel.

DNA Bendability Model

Jun. 2023 - Sept. 2023

Research Assistant | Professor Wang (Department Chair: Professor of Statistics and Data Science) Research Group

Evanston, IL

- Created a TensorFlow model to predict the bendability of a segment of DNA given a specific DNA K-mer length.
- Achieved an R-Value close to 0.9 using the TensorFlow package.

## SKILLS & RELEVANT COURSEWORK

- **Technical Skills:** C++, Python, TypeScript, Java, JavaScript, Microsoft Azure, REST APIs, CI/CD Pipelines, MSSQL, CAD, API Development, HTML, CSS, PostgreSQL, Circuit Development
- **Tools/Frameworks:** Git, Github, Tensorflow, Keras, PyTorch, Pandas, NumPy, Node, Express, Vue, Vuetify, React
- **Interpersonal Skills:** Collaboration, Teamwork, Team Management, Spanish (Fluent), Chinese (Working Proficiency)
- **Relevant Courses (by May 2026):** Computing Systems, C++, Data Structures and Algorithms, Linear Algebra, FPGAs