Chris Xu

cxu57@illinois.edu | (224) 216–3292 |Champaign & Chicago, IL| [LinkedIn](#) | chrisyxu.com

EDUCATION & HONORS

University of Illinois Urbana-Champaign, Grainger College of Engineering **Expected May, 2027**
Bachelor of Science in Computer Science + Bioengineering **GPA: 4.0/4.0**

Honors & Awards
- **1st Place - CI MED Make-A-Thon:** 1st place out of 8 teams, helped to nerve detecting cauterizer
- **James Scholar:** Selected for a competitive honors program completing advanced academic projects
- **FA' 2024 Dean's List:** Recognized for academic excellence by achieving a higher GPA than 80% of cohort
- **SP' 25 Undergraduate Research Symposium:** Planned attendance, placement & awards will be updated
- **SP' 25 Engineering Open House:** BMES Shoulder Project
- **SP' 25 Cozad New Venture:** Planned attendance, placement & awards will be updated

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**

SKILLS & RELEVANT COURSEWORK

- **Technical Skills: Java, Python** *(Tensorflow, Keras, NumPy),* **C++, C, CAD** *(Onshape, Fusion360, Inventor),* MatLab, HTML, CSS, JavaScript, PostgreSQL, PowerShell Scripting, Network Administration, Circuit Development
- **Interpersonal Skills:** Collaboration, Teamwork, Team Management, Spanish (Fluent), Chinese (Working Proficiency)
- **Relevant Coursework:** Java, C++, Data Structures, Computing & Assembly, Discrete Math

PROFESSIONAL WORK EXPERIENCE

New Trier High School IT Department **Jun. 2024 - Aug. 2024**
Summer Intern *Winnetka, IL*
- Collaborated with the entire New Trier High School IT Department to refresh devices & apply network wide updates
- Attained experience in PXE booting, PowerShell scripting, & network administration

Math Tutoring **Sept. 2021 - May 2024**
Various Levels: Mathnasium, New Trier Academic Assistance Center *Winnetka & Kenilworth, IL*
- Academic Assistance Center: Selected by faculty as a math tutor based on academic achievement. 300+ taught & assisted.
- Mathnasium: Developed elementary to high school students' skills in mathematics, logic, & problem solving

LEADERSHIP & INVOLVEMENT

Illinois Medical Advancements through Design & Engineering (i-MADE) **Sept. 2024 - Present**
Software Engineer | Stealth Project | Jan. 2025 - Present *Champaign, IL*
- Stealth Project: Worked with on campus startup, Stealth, to create an ML model. Presenting at Cozad & URS
- Utilized the SciPy package & numPy to train an SVM model to determine muscle fatigue & optimal training intervals.

CAD Engineer | Sandman Project | Sept. 2024 - Jan. 2025
- Collaborated with an interdisciplinary team to create an at home hospital bed with voice command capabilities
- Designed & simulated using Fusion360 & Inventor with the Gensim package for NLP

Biomedical Engineering Society (BMES) **Sept. 2024 - Present**
Engineer *Champaign, IL*
- Electronic Shoulder Project: Currently developing an electronic shoulder to be exhibited at Engineering Open House.
- Sole developer of the CAD & physical model whilst assisting in the electronic circuit & Arduino code

First Tech Challenge Robotics: **Team 11392** **March 2020 - May 2024**
Captain & Various Roles *Naperville, IL*
- Led a team of 10 students in constructing & coding a fully functional robot specializing in various tasks
- Programmed in Java for core functionalities, OpenCV for image analysis, with OnShape & Fusion360 used for design

RESEARCH

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.

STEM Education Policy Review **Jun. 2023 - Sept. 2023**
Main Researcher | Mentor: Ronald Omuthe *Remote | Cambridge, United Kingdom*
- Conducted a literature review of STEM education policy & its impact on DEI in STEM education. Accepted to NHSJS