

# Matthew Jeung

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## EDUCATION

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### University of Chicago

*BS in Computer Science Spec. Machine Learning, BA in Public Policy Studies*

Chicago, IL

*Expected, 2026*

- **GPA:** 3.87/4
- **Honors and Awards:** Quad Undergraduate Research Award, Humanities UX Scholar, Jeff Metcalf Fellowship
- **Relevant Coursework:** Theory of Algorithms, Math Foundations for Machine Learning, Engineering Interactive Devices, Mobile Computing

## EXPERIENCE

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### Sony Research x Actuated Experience Lab

January 2025 – Present

*Researcher*

- Developed an interactive 3D interface with physics simulations for Sony controller haptics research
- Coded physics simulations of flywheel behaviors using Pyvista, Scipy
- Designed hardware and software for flywheel-based haptic capsules

### UChicago Department of Computer Science - Actuated Experience Lab

September 2023 – Present

*Research Assistant*

*Chicago, IL*

- Built novel system to control over 30 swarm robots in real-time through hand and voice inputs
- First author of “Shape n’ Swarm” paper for submission to UIST 2025 conference
- Coded system with LLMs, swarm movement API, React.js frontend, and path planning algorithm

### EduAvenues

June 2023 – September 2023

*Software Engineering Intern*

*Remote*

- Developed online standardized test simulator used by over 1100 paying users each year
- Built full-stack web development skills with Javascript, React.js, and PostgreSQL

## ACTIVITIES

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### UChicago Robotics Team

October 2024-Present

*Combat Robotics Team*

*Chicago, IL*

- Won MakeHarvard 2025 Most Sustainable Project (event theme) with GreenGuide, glove that scans and gives sustainability feedback on grocery items
- Designed 1-lb combat robot from scratch, developing Fusion 360, electronics, and prototyping skills

### Phoenix Sustainability Initiative

September 2023 – May 2024

*Green Data Team*

*Chicago, IL*

- Performed Python data analysis on Chicago environmental justice and health conditions to generate report
- Applied polynomial regressions and created data visualizations on the impacts of environmental indicators

## PROJECTS

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### Ambient Song Selector for Spotify (iOS)

April 2024 - June 2024

- Developed ML-based Spotify extension to autoplay songs based on physical activity and environment
- Trained Random Forest machine learning model to classify user physical activity with 99 percent accuracy
- Built experience with Xcode, Swift, CoreML, and Scikit

### Advance Illinois Project

January 2023 - June 2023

*University of Chicago TechTeam*

*Chicago, IL*

- Developed React.js webpage that generates informational one-pagers on Chicago public school data
- Created data visualizations on school spending and funding for advocacy efforts

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, Swift, C/C++, JavaScript, R

**Software:** Git, React JS, Flask, Xcode, VSCode, Docker, Processing, Vim, PostgreSQL

**Electronics and Hardware:** Arduino, Fusion 360, Rhino