

# Cindy Hu

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## EDUCATION

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Northwestern University, Evanston, IL

Dual Bachelor of Science Degrees in Computer Science and Communication Studies

Anticipated Graduation: June 2023

GPA: 3.95/4.0

*Relevant Coursework:* Advanced Data Structures and Algorithms, Distributed System, Human-Computer Interaction, Machine Learning, Full-Stack Website Development (online: Udemy)

## TECHNICAL SKILLS

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

**Frameworks & Tools:** Amazon Web Services, Node.js, React, Angular, Meteor, Google Guice, P5.js, ML5.js, MongoDB

## ENGINEERING EXPERIENCE

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Lighthouse Education (Startup), Evanston, IL

December 2020 – Present

*Front-end Software Developer*

- Work with back-end developers on building the UI in Angular for the real-time automated tagging system which groups notes together based the relevance of the content and generates maps for visualization
- Improve the cross-platform compatibility and dynamic rendering of the app and add more features for users to customize the auto-generated tags and maps

Amazon.com, Bellevue, WA (remote)

June 2021 – September 2021

*Software Development Engineer Intern (Team: Sort Tech)*

- Created a new service with AWS based on a current load optimization system used at Amazon's facilities worldwide (AWS products used: cloud computing platform, database, storage, networking, and service monitoring)
- Drafted high-level and low-level technical documents that explained back-end infrastructure, justified design choices on various AWS products, and proved the feasibility of the organization's long term architecture goal

Delta Lab at Northwestern University, Evanston, IL

June 2020 – February 2021

*Undergraduate Researcher*

- Conducted qualitative analysis on over 30 hours of interview data to understand behaviors of novice programmers
- Built algorithms in Python to detect moments when a beginner might be experiencing negative emotions while coding
- Co-authored a paper that has been accepted to the *Artificial Intelligence in Education* conference in April 2021

*Web Developer*

- Assisted graduate students in upgrading the lab website with new features through Meteor
- Designed new user interface and improve back-end functionalities for the lab members to edit personal profiles and research projects easier

Institute of Electrical and Electronic Engineer (IEEE), Northwestern University

June 2020 – October 2020

*Web Developer, Team Project*

- Partnered with a fellow student to develop a college basketball game prediction model with over 80% of precision
- Directed the web application portion of the project for enabling users to interact with the prediction model and showcasing data modeling techniques behind the prediction (Tools used: HTML/CSS, Bootstrap, JavaScript, jQuery)

Develop + Innovate for Social Change, Northwestern University

*Web Developer, Client: Evanston Development Cooperative*

January 2020 – June 2020

- Developed an informational website for policymakers and stakeholders about promoting affordable housing
- Collaborated with a team of 6 students to discuss and coordinate project details with representatives from Evanston Development Cooperative

## VOLUNTEER

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The Coding School

July 2020 – October 2020

*Curriculum Developer for Creative Coding*

- Joined a team of undergraduate students and experienced consultants to develop an 40-hour introductory creative coding curriculum for K-12 students
- Drafted lesson materials with a focus on visualizing programming concepts through P5.js and JavaScript