

# Meredith Hu

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## Education

**Cornell University**, Ithaca, NY

May 2024

*Bachelor of Arts Double Major: Computer Science and Classics*

**Relevant Courses:** Data Structures, Algorithms, Computer System Organization, Functional Programming, Formal Verification, Programming Language Theory, OS, AI, Linear Algebra, Probability, Discrete Math

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## Work Experience

**Capra CS Lab**, Ithaca, NY – *Undergraduate Research Assistant*

May 2022 - Present

- Developed assembly level benchmarks to test features for a research language including binary operators, GPU externalization, and program synthesis.
- Automated testing of runtime metrics and statistic generation for benchmarks with scripting in Python.
- Created documentation for project compiler setup and assembly benchmark writing.
- Modeled an algorithmic problem using Python for the Z3 SAT solver to further formal verification skills.

**Cornell Tech**, New York, NY – *Intern*

June 2021 – August 2021

- Delved into coursework on tech ethics, software development tools, and the business practices of successful startups in New York City for the Cornell Milstein Program.
- Discussed city infrastructure problems with City of New York representatives and designed short-term software solutions. Completed software development databases internship for NYC nonprofit HeatSeek, reorganizing HeatSeek's backend data into Airtable.

**ReLearn**, Ithaca, NY – *Lead Designer and Operations Officer*

Jan 2022 – June 2022

- Led design efforts on ReLearn, a Cornell-student founded collaborative studying app, by analyzing user needs and communicating design plans to developers.
  - Planned and ran workshops for beta testing of new feature on 40+ people in Cornell classes and conducted user interviews on 15 users.
  - Organized and led 4 campus outreach events and one sponsored promotional event. Executed social media campaign on Instagram and university wide poster advertisement campaign for events.
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## Projects

**m-Interpreter** (Java) [github.com/meredithmhu/m-interpreter](https://github.com/meredithmhu/m-interpreter)

Sept. 2024 – Present

- Built interpreter in Java for a programming language with basic data types, expressions, statements, and variables to learn more about program execution principles.
- Applied skills previously learned in a programming languages class, such as interpreter writing and programming language design. Currently implementing control flow elements.

**My Website** (Materialize) [github.com/meredithmhu/meredithmhu.github.io](https://github.com/meredithmhu/meredithmhu.github.io)

Oct 2018 – Present

- Created a website on GitHub Pages using Jekyll for page layout management and HTML/CSS for styling. Website includes navigable menu bar, resume, and interactive portfolio of software projects.

**FAT File System** (C)

Apr 2024 – May 2024

- Collaborated with a partner on creating a simulated FAT File System in C for an operating system for Cornell's project-based operating systems class.
  - Project involved writing low-level code susceptible to breaking often, so skills learned involved an increased familiarity with Valgrind, the C compiler, gdb, and Makefiles.
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**Programming Languages:** Python, Java, C, OCaml

**Front-end Development Tools:** Jekyll, HTML, CSS, GitHub Pages

**Developer Tools:** Git, GitHub, Bash, Make, VS Code, IntelliJ, Eclipse, Airtable

**Design Tools:** Adobe Illustrator, Canva, Blender