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

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.

Projects

m-Interpreter (Java) 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   *Oct 2018 – Present*
- Created a website using the Materialize CSS Framework. Website includes navigable menu bar, interactive portfolio of previous and current software projects, up-to-date resume and personal interests.

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.

Programming Languages: Python, Java, C, OCaml
Front-end Development Tools: Materialize, GitHub Pages
Developer Tools: Git, GitHub, Bash, Make, VS Code, IntelliJ, Eclipse, Airtable
Design Tools: Adobe Illustrator, Canva, Blender