

Mingcheng Hu

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EDUCATION

University of North Carolina at Chapel Hill

Master of Science in Biostatistics

Chapel Hill, NC

Aug. 2023 – May. 2025(Expected)

Shanghai Jiao Tong University - Joint Institute

Bachelor of Science in Electrical and Computer Engineering

GPA: 3.63 / 4.00

Shanghai, China

Sep. 2019 – Aug. 2023

University of Michigan

Bachelor of Science and Engineering in Data Science

GPA: 3.94 / 4.00

Ann Arbor, MI

Aug. 2021 – May. 2023

Selected Coursework:

Machine Learning, Web Systems, Database Management, Real Analysis, Bayesian Inference, Nonparametric Statistics

PROJECT EXPERIENCE

R10K Superscalar Processor / ECE4700J Computer Architecture

Student

Shanghai, China

Summer 2023

- Construct a 2-way superscalar processor that allows register aliasing and has 7 functional units.
- Implement issue logic and execution stage of instructions based on single input/output memory unit.

Decaf Compiler / EECS483 Compiler Construction

Student

Ann Arbor, MI

Winter 2022

- Implement lexical analysis using flex and regex.
- Perform syntax analysis on generated tokens using yacc and C++.
- Generate MIPS code as backend and allocate registers via Chaitin's algorithm

Insta485 / EECS485 Web Systems

Student

Ann Arbor, MI

Winter 2022

- Develop a feed of posts application, incorporating Bootstrap as style and React as building blocks.
- Handle the REST API using Jinja and Flask for back-end and manage the database using SQLite.
- Build a MapReduce structure using Python and incorporate it into a search engine.

RESEARCH EXPERIENCE

Virtual Hospital / Statistics Online Computational Resource (SOCR)

Member

Ann Arbor, MI

Feb. 2022 – April. 2023

- Build a RShiny application based on shinyDashboard that can hold different functionalities such as UMAP.
- Package the application into a portable version through Electron.

PROFESSIONAL EXPERIENCE

Frontend Developer / GBCS Group

Intern

Calgary, Canada

May. 2022 – Aug. 2023

- Maintain client and vendor side of Aukai and Orion using React hooks, PrimeReact, and other JavaScript libraries.
- Adopt Next.js, Mantine, Jotai and Sass to revamp the landing pages of GBCS groups.
- Attend regular sprint meeting, troubleshoot and provide feedbacks for UI/UX design team.

SKILLS

Language: R, Python, JavaScript, C++, Verilog, Java, SQL, Mathematica, Latex, SAS

TEACHING EXPERIENCE AND ACTIVITIES

Teaching Assistant, ECE4700J Numerical Analysis, Shanghai Jiao Tong University

2023

Grader, EECS370 Intro to Computer Organization, University of Michigan

2022