

MELISSA CHEN

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EDUCATION

University of Illinois at Urbana-Champaign

Aug 2018 - May 2022

B.S. in Computer Science, Minor in Mathematics

GPA: 3.93/4.00

Relevant Coursework Software Engineering Studio, Discrete Structures, Statistics and Probability for CS, Data Structures, Computer Architecture, Numerical Methods, Linear Algebra, Systems Programming, Database Systems, Bioinformatics, Differential Equations, Algorithms and Models of Computation, Artificial Intelligence, Probability Theory

Honors Chancellor's Scholar, James Scholar, Phi Eta Sigma, Tau Beta Pi, Dean's List 4x

SKILLS

Programming Languages and Frameworks C, Python, C++, MongoDB, Neo4J, SQL, Verilog, MIPS, Java, Keras, PyTorch, Django, React.js, Hacklang

Languages English, Chinese, Spanish, Japanese

EXPERIENCE

Undergraduate Research Assistant, University of Illinois at Urbana-Champaign

Oct 2020 - Present

Performed literature survey on plant heritability and presented readings in weekly meetings

Software Engineering Intern, Facebook (Privacy Infra Org)

May 2020 - Aug 2020

Developed a new framework to test feature extractors used to detect user-identifiable information

Decreased experiment runtime by half and created an intuitive UI to expedite feature extractor development

Course Assistant, CS 233 Computer Architecture

Jan 2020 - Present

Hosted office hours to help students with labs in Verilog and MIPS

Developed assignments for students in virtual learning environments

Undergraduate Researcher, University of Illinois at Urbana-Champaign

Sept 2018 - Sept 2019

Studied the theory of non-negative matrix factorization and applied knowledge on cancer genomics data

Researched missingness mechanisms and imputation methods to compare their relative speeds

Performed literature survey on missing data and neural networks to create classifier to handle missing features

Summer Research Intern, Academia Sinica Institute of Information Sciences

June 2018 - Aug 2018

Read and analyzed research papers on computer vision and machine learning

PROJECTS

Non-negative matrix factorization on cancer gene expression data

Sept 2018 - Dec 2018

Used non-negative matrix factorization to achieve 85% accuracy on the PANCAN dataset of cancer genomics data

ACTIVITIES

Events Chair, CS Mental Health Committee

Aug 2020 - Present

Planned and promoted events with committee to increase mental health awareness

Designed informational social media graphics to encourage mental health awareness and self-care, spread information about the committee, and promote events and initiatives

Explorations (Technical) Co-Chair, Women in Computer Science

May 2020 - Present

Planned and presented tutorials with group-based activities on Git, terminal, hackathons, and interviews

Directed virtual hackathon for female and non-binary students with 60 registrants, 7 project submissions

Organized 5 project teams to work on social good and STEM education-related projects

Facilitator, Girls Who Code @ UIUC

Sept 2019 - Present

Designed and coordinated delivery of curriculum for introductory level Scratch workshop and data science

Served as a project manager for four middle-school aged students working with Spheros for a semester project

Co-Director, HackIllinois 2020

Apr 2019 - Mar 2020

Oversaw and coordinated efforts of 50 team members to build the premier collegiate open source hackathon, hosting 800 attendees, 35 mentors, 17 companies, and 200 volunteers for 36 hours at the University of Illinois at Urbana-Champaign

Content x Diversity Co-Chair, Reflections | Projections 2020

Dec 2019 - Sept 2020

Coordinated committee of 15 students to host 21 speakers for the largest student-run tech conference in the midwest