MELISSA CHEN

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EDUCATION

University of Illinois at Urbana-Champaign *Aug 2018 - May 2022*
Bachelor of Science in Computer Science, Minor in Mathematics GPA: 3.93/4.00
Relevant Coursework Discrete Structures, Statistics & Probability, Data Structures, Computer Architecture, Numerical Methods, Linear Algebra, Systems Programming, Database Systems, Bioinformatics, Differential Equations, Algorithms & Models of Computation, Artificial Intelligence, Probability Theory, Social Visualization*, Programming Languages & Compilers*, Reinforcement Learning*, Trustworthy Machine Learning* (* denotes courses in progress for Spring 2021)
Honors Chancellor's Scholar, James Scholar, Phi Eta Sigma, Tau Beta Pi, Dean's List (FA18, SP19, FA20, SP20)

SKILLS

Programming Languages and Frameworks C/C++, Python, MongoDB, Neo4J, SQL, Verilog, MIPS, Java, Keras, PyTorch, Django, React.js, Hacklang, Javascript, R
Languages English, Chinese, Spanish, Japanese

EXPERIENCE

SPIN Undergraduate Research Intern, National Center for Supercomputing Applications *Jan 2021 - Present*
Created data visualizations of crop yields in the midwest and worked on machine learning models for classifying crops using satellite image data

Undergraduate Research Assistant, University of Illinois at Urbana-Champaign *Oct 2020 - Present*
Performed literature survey on plant heritability and presented readings in weekly meetings
Generated ground-truth data for several crop types in R

Course Assistant, CS 233 Computer Architecture *Jan 2020 - Present*
Held weekly office hours to help students with labs in Verilog and MIPS
Developed questions to aid in students' understanding of course content in virtual learning settings

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

Undergraduate Researcher, University of Illinois at Urbana-Champaign *Sept 2018 - Sept 2019*
Studied theory of non-negative matrix factorization and applied knowledge on cancer genomics data to achieve 85% accuracy on the PANCAN dataset of cancer genomics data
Performed literature survey on missingness mechanisms, imputation methods, 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

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 our events, initiatives, and committee.

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 (Volunteer), Girls Who Code @ UIUC *Sept 2019 - Present*
Designed and coordinated delivery of curriculum for introductory level Scratch and data science workshops

Co-Director, HackIllinois *Apr 2019 - Mar 2020*
Oversaw collaborative 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