

## EDUCATION

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- **Honors Bachelors of Science in Computer Science** Minneapolis, MN  
*College of Science and Engineering, University of Minnesota; GPA: 4.00* *Expected April 2024*
  - **Relevant Coursework:** Machine Learning; Statistics and Probability; Artificial Intelligence; Algorithms & Data Structures; Honors Discrete Math; Computational Linear Algebra; Machine Architecture & Organization;
  - **Scholastic Awards:** Presidential Scholarship, AP National Scholar, Delta Sigma Phi Men of Courage Award, Dean's List

## PROGRAMMING SKILLS

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- **Languages:** Python, R, Matlab, Java, C, C++, Javascript, HTML, CSS
- **Technologies:** scikit-learn, NumPy, Pandas, Matplotlib, Pytorch, Excel, git, unix/shell, LaTeX

## LEADERSHIP & EXPERIENCE

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- **Undergraduate Research Assistant** Mayo Clinic, Rochester, MN  
*Microbiome Systems Medicine Laboratory (PI: Jaeyun Sung, PhD)* *March 2021 - Present*
  - Performed machine learning techniques on large-scale microbiome and immunology datasets with the aim of identifying biomarkers, visualizing data for interpretability, and increasing the predictive power of microbiome based health status indicators.
- **Mayo Clinic Laboratory Mentorship** Rochester, MN  
*Transporter Molecular Biology and Physiology Laboratory Mentee* *Spring 2019*
  - Performed electrophysiology trials on functional defects of Dent disease causing mutations to quantify ion exchange in order to contribute data that is being used in a publication.
  - Cloned wild type CLC-5 proteins in *Xenopus laevis* oocytes and performed eGFP and hemagglutinin tagging to quantify trafficking defects.
- **CS106a Section Leader** Rochester, MN  
*Stanford University* *Feb 2021 - Present*
  - Section leader for Stanford University's free, non-credit, remote course CS106a ("Code in Place")
  - Create engaging programming lessons and discussions for introductory Python for a group of 10 students online. Hold office hours and provide feedback and grading on programming assignments and exams to improve class engagement.
- **Youth Enrichment League** Rochester, MN  
*Robotics Instructor* *Summer 2021*
  - Led a summer robotics camp, teaching several groups of 5-10 grade school students the fundamentals of LEGO EV3 robotics, modular programming, problem solving, and teamwork
  - Prepared the students with teamwork and programming skills to compete in the LEGO robotics FLL competition
- **UNICEF Club** Rochester, MN  
*Co-founder and Treasurer* *Spring 2017 - Summer 2020*
  - Co-founded the first youth UNICEF chapter in MN and kickstarted the UNICEF clubs at all other public high schools in Rochester.
  - Networked with local businesses to raise \$20,000+ for disaster relief and with local schools for advocacy events.
  - Created excel scripts for managing fundraising event budgets and managed monetary transactions with UNICEF.

## VOLUNTEERING

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- **Piano/Rochester Youth Music Ensemble:** Founded a local youth group focused on performing piano/chamber music in retirement homes. 2018 Rochester Music Guild Senior Piano 1st Place
- **Saint Mary's Hospital Young Volunteers:** Guided patients to their destinations in the complex building at the local hospital, comforted patients after a long day of surgery or appointments.
- **Knowledge Bowl Captain:** Won regional championship. Led practices three times a week and volunteered for booster club funding.