

# Zachary Ward Goldston

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## EDUCATION

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- **University of Michigan, Ann Arbor (CoE)** Ann Arbor, Michigan  
*Bachelor of Science in Engineering - Computer Science, Mathematics Minor; GPA: 3.90* *August 2019 - May 2023*  
*Courses:* Operating Systems, Data Structures and Algorithms, Machine Learning, Computer Organization, Foundations of CS, Linear Algebra, Probability and Statistics, Mathematics of Finance, Programming Languages, **Combinatorics and Graph Theory**  
*Activities and Societies:* Engineering Honors, Tau Beta Pi, Michigan Mars Rover, Eta Kappa Nu, Math Club, Michigan Hackers, Cello, Supplemental Instructional Leader for EECS 280, Quantitative Investment Society

## EXPERIENCE

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- **Tau Beta Pi - Michigan Gamma Chapter** Ann Arbor, Michigan  
*Chapter President* *April 2022 - present*
  - Responsible for shaping chapter vision, planning events, running meetings, and attend national conferences
  - Approved \$100k donation for chapter TBP Endowment Fund for sustained financial security
  - Rewriting 2 Year Plan, DEI Plan, and Website to improve chapter presence and accessibility
- **College of Engineering** Ann Arbor, Michigan  
*EECS Instructional Aide (EECS 280, EECS 445)* *August 2021 - present*
  - Part of teaching staff for upper level course (Machine Learning) and main-sequence course (Programming and Data Structures) for Computer Science majors
  - Aid students in understanding concepts and completing assignments through office hours and lab sections, test student understanding by writing exams, and improve the course via student feedback
- **Capital One** Chicago, Illinois  
*Core and Lending as a Service Intern* *May 2022 - August 2022*
  - Worked on fixing issues with metrics page for internal website hosting company APIs, datasets, and data streams
  - Used combination of TypeScript, NgRx, and Angular framework to fix system issues, coupled with Java Spring for backend
  - Made new metric for reporting max transactions per second on endpoint and client level
- **Michigan Mars Rover** Ann Arbor, Michigan  
*Navigation Subteam Lead* *April 2021 - June 2022*
  - Oversaw team of 8 students in the development of C++ software for the autonomous navigation portion of URC
  - Ran integration tests to mock competition standards, oversaw 200% increase in average auton score
  - Worked on refactoring existing code and adding robustness to handle poor detection from camera data
- **CME Group** Chicago, Illinois  
*Software Engineering Intern* *May 2021 - August 2021*
  - Developed real-time visualizations in Q and KX Systems via kdb+ to replace non-realtime Tableau Dashboards
  - Learned how mercantile exchanges operate through info sessions on contracts, clearing house, and other services
  - Finished 4th in company-wide intern trading competition

## SKILLS SUMMARY

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- **Languages:** C/C++, C#, Python, Java, JavaScript, TypeScript, OCaml, MATLAB, Rust, Q
- **Tools:** Docker, Redux, Git, KX Systems, kdb+, L<sup>A</sup>T<sub>E</sub>X
- **Frameworks:** Angular, Spring
- **Platforms:** Ubuntu, Arch, Web, Windows, Arduino
- **Soft Skills:** Leadership, Fundraising, Public Speaking, Project Management, French (basic), Mentoring

## HONORS AND AWARDS

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- University Rover Challenge, 1st Place - June 2022
- Jane Street Estimathon @ Michigan, 3rd Place - March 2022
- Lou R. & Marguerite M. Crandall Scholarship - August 2021
- Boeing Company Scholarship - November 2020
- Dean's List + University Honors - Various Semesters