

# Jacob M. Ziff

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## Education

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### University of Michigan

Ann Arbor, Michigan

Major: Bachelor of Science in Engineering in Computer Science

Anticipated May 2025

Minors: Digital Studies, Statistics

GPA: 3.93/4.00

Relevant Coursework: Programming Languages, Programming Paradigms, Data Structures and Algorithms, Foundations of Computer Science, Introduction to Computer Organization

Awards and Honors: Dean's Honor List (5/5 Semesters), James B. Angell Scholar (Fall 2021 – Fall 2023), William J. Branstrom Freshman Prize

## Work Experience

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### KUKA

Clinton Township, Michigan

Software Design Intern

May 2023 – August 2023

- *Created and tested virtual commissioning environments to satisfy automotive production safety requirements*

### University of Michigan – Michigan Language Assessment

Remote

Clerk

May 2022 – August 2022

- *Conducted internet research and organized databases for furthering marketing outreach efforts*

## Skills

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Programming Languages: C++, C, Java, MATLAB

Certifications: Microsoft Access, Excel, Outlook, PowerPoint, and Word Associate (March 2020 – May 2020)

## Projects

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Processor Simulator (September 2023 – November 2023)

- *Developed an assembler, linker, data path, and cache of a custom assembly language*

SQL Clone (February 2023 – March 2023)

- *Created a relational database supporting data entry and queries through command-line interaction*

Euchre (September 2022 – October 2022)

- *Designed a playable version of the card game*

Process and Throughput Optimization (January 2022 – April 2022)

- *Simulated a real-world business environment by modeling scenarios and making data-backed decisions*

## Activities

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Tau Beta Pi – The Engineering Honor Society (December 2023 – Present)

- *Cultivated knowledge and relationships through events while authoring publications as Historian*

Phi Sigma Pi National Honor Fraternity (February 2022 – Present)

- *Engaged learning and creativity while creating social connections through various events*

The Michigan Football Analytics Society (September 2022 – Present)

- *Analyzed the game through research, data analysis, statistics and social conversations*