

# Matthew Prock

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## EDUCATION

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### University of Michigan

Bachelors of Science in Computer Science and Cognitive Science; minor in Art and Design

Ann Arbor, MI

Expected May 2026

**GPA: 3.75/4.00**

Residential College— *living+learning community emphasizing the arts and humanities, an intensive foreign language program, and fostering tight-knit community within a large university*

**Relevant Coursework:** Web Systems, CS Foundations, Data Structures & Algorithms, Statistics & Data Analysis, Discrete Math

## SKILLS

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**Programming Languages:** C++, Python

**Web Development:** JavaScript, React, Flask, HTML, CSS, SQL

**Technical:** Git & managing programming workflow; Bash/shell scripting

**Non-Technical:** Fluent in English, conversational and written proficiency in Spanish; user interviews & user research

## PROGRAMMING PROJECTS

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### Insta485

- server-side dynamic Instagram clone; HTML templates generated in Python with Jinja2 and database queries
- features functionality for login/logout, post creation, likes, comments, “explore” page featuring new users

### Portfolio Website

- Self-designed webpage (HTML, CSS, JavaScript) showcasing programming projects, design portfolio, work experience

### Snake Game

- Snake game for the web; game mechanics written in JavaScript, handwritten HTML/CSS

### SillyQL

- Relational database emulating a structured query language, written in C++
- Table creation/removal, inserting/deleting keys, joining tables, and generating keys for selective searching/printing.

### Data Structures & Algorithms Projects (C++)

- Course projects explored breadth and depth-first searches, database management using hashing, implementing priority queues with pairing heap and binary heap, emulating STL code such as `std::string`, union find and path compression
- Received 100% on all projects, graded by accuracy of program output and efficient management of speed and memory

## RESEARCH EXPERIENCE

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### Hazel - Programming language research

Ann Arbor, MI

Researcher at FPLab

May 2024 – Sep 2024

- Contributed to programming language research through [Hazel](#), a live functional programming environment that can “understand, manipulate, and even run incomplete programs, i.e. programs with holes.”

### “Social media influencers and self-employment in the U.S.” - social media research

Ann Arbor, MI

Research Assistant at UMSI

Feb 2024 – present

- project assesses impact of social media influencers’ content on viewers’ journeys in self-directed work, through interviews and social media posts, to explore how user-generated content shapes users’ self-perceptions and perspective on owning a business
- gathers social media content for analysis, assists in conducting interviews and writing survey questions, and critically analyzes survey and interview responses, to prepare to eventually write and publish research conclusions

## WORK EXPERIENCE

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### The Michigan Daily

Ann Arbor, MI

#### Lead Illustrator

May 2024 – present

#### Illustrator

May 2023 – present

- Designs and creates digital illustrations to accompany stories corresponding to requests from article writers, to enrich the stories for readers and increase visual engagements with the text
- Completes all assigned illustrations within 24 hours of receiving requests, balancing delivering illustrations according to production deadlines while still producing high-quality design work
- *Nightly lead* illustrators manage higher illustration workload and contribute to more collaborative, thematic design projects

## AWARDS

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- James B. Angell Scholar at University of Michigan, awarded winter 2023-present
- University Honors at University of Michigan, awarded fall 2022-present
- Spanish Honors Society, awarded 2018-2022
- Illinois State Scholar and President’s Education Awards, awarded 2016-2022