

Matthew Prock

Ann Arbor, MI | matthewprock8@gmail.com | [linkedin.com/in/prock-matthew/](https://www.linkedin.com/in/prock-matthew/) | matthewprock.org

EDUCATION

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, Data Structures & Algorithms, Statistics & Data Analysis, Discrete Math

SKILLS

Programming Languages: C++; front-end technologies: HTML, CSS, JavaScript; Python for web development

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

Insta485

- Static templated Instagram clone; both hand coded HTML/CSS and templates generated using Python (Jinja2) and json configs

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, which are graded by accuracy of program output and efficient management of speed and memory

RESEARCH EXPERIENCE

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

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

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

- James B. Angell Scholar at University of Michigan, awarded winter 2023-present
- University Honors at University of Michigan, awarded fall 2022-present
- DISCO Digital Accessibility Anthology: submission accepted winter 2024
- Spanish Honors Society, awarded 2018-2022
- Illinois State Scholar and President’s Education Awards, awarded 2016-2022
- AP Scholar, awarded 2018-2022