

# Fanny Raskind

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## EDUCATION

### University of Michigan, LSA

B.S. Expected: Apr 2026

*B.S. Computer Science, Minor UX Research and Design*

- **GPA:** 3.93/4.00 | **Programs:** LSA Honors Program, Michigan Research and Discovery Scholars
- **Awards:** Stamps Scholar, U.P. Scholar, Joyce Ivy Scholar, 2x University Honors (James B. Angell Scholar), MI Competitive Scholarship, MTU Math Certificate of Merit
- **Coursework:** Data Structures and Algorithms, Web Systems, Computer Organization, Theory of Computation, Computational Social Sciences, Human Computer Interaction, Discrete Math, Statistics and Data Analysis

## EXPERIENCE

### TruU

Sept 2024 – Present

*Software Engineer*

- Develop and implement Angular code to streamline internal tooling and password authentication processes
- Prioritize user experience during development to ensure tools meet design requirements and are intuitive for users

### General Motors

Sept 2024 – Present

*Software Engineer*

- Design and build a unified data pipeline and database to connect vehicle features and system data within legacy IT systems to GM's current software services ecosystem
- Develop a user interface for program displaying important data and corresponding training manual

### Atlas Digital Consulting Club

Jan 2024 – Present

*Software Analyst*

- Implemented frontend of application portal for 200+ applicants with React/HTML/CSS, backend using Firebase
- Designed features using Figma, applying modern UX principles to enhance usability and create intuitive interfaces
- Planned for distribution to other organizations for seamless integration into their application processes

### University of Michigan, Computer Science & Engineering

Aug 2023 – Present

*Instructional Aide, EECS 280: Programming and Data Structures*

*Instructional Aide, EECS 183: Elementary Programming and Concepts*

- Teach engaging and informative weekly lab sessions to enhance the learning experience of 32 students
- Guide projects, resolve questions, and offer comprehensive assistance in office hours to support and improve the success of 1000+ students in introductory and intermediate computer science courses
- Lead review sessions and write exam problems to ensure smooth course operations

## PROJECTS

### Social Media Platform | *React.js, SQL, REST API, Jinja2, Flask, Git, AWS*

Fall 2024

- Developed a full-stack social media platform via Flask that queries SQL databases to populate 12 Jinja HTML templates and updates databases upon account and post creations; utilized session cookies/hashing for verification
- Enabled dynamic likes, comments, and infinite scrolling with React components via HTTP request methods
- Utilized JSON-based REST API architecture; deployed to AWS EC2 instance

### Search Engine | *REST API, Flask, MapReduce, Git, AWS*

Fall 2024

- Implemented fullstack search engine with pagerank calculations, API endpoints, and a mapreduce pipeline that utilized an inverted index database
- Developed manager-worker scheme to improve performance on search and serving of search queries; deployed to AWS EC2 instance with 100% code coverage

### SQL Database | *C, C++, MySQL, Git*

Winter 2024

- Developed a relational database language and accompanying command line shell interface using C++ modeled after MySQL, optimizing insertion and querying times to reduce runtime by 15%
- Maintained table invariants while implementing join, table querying, insertion, and deletion of elements

## TECHNICAL SKILLS

**Languages:** English (Native), Russian (Professional Working Proficiency)

**Programming Languages:** Python, Java, C/C++, SQL, JavaScript, HTML/CSS

**Technologies:** React, Flask, Angular, REST API, Git, AWS, Figma