Jasmine Schaber

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LinkedIn | GitHub

EDUCATION

Tufts University, Medford, MA — May 2027
B.S. in Computer Science, Cognitive Brain Science
GPA 3.6, Dean's List All Semesters

Relevant Courses: Programming Languages, Machine Structures and Assembly, Computational Systems Biology, Biostatistics, Artificial Intelligence, Intro to Data Structures, Intro to Computer Science, Calculus II, Linear Algebra

TECHNICAL SKILLS

Technical Skills: React, Node.js, Git, Tailwind CSS, C/C++, Python (Sci-Kit, Pandas, Matplotlib), SQL, MongoDB

PROJECTS

Survey Collection Website
JumboCode — *September 2024 – Present*

- Collaborated with team to build a survey tool for an education nonprofit in Cameroon
- Developed full-stack user authentication with three-tier permissions, including admin transfers and role promotions
- Implemented secure CRUD functionality for up to 200 students to submit and manage feedback surveys
- Worked in a fast-paced Agile environment with biweekly assignments and iterative feature rollouts

Glyph
Social e-Reading Platform - Independent Project — *January 2025 – Present*

- Co-founded a platform targeting shared annotations for reading within academia, with interactive comment sphere
- Led UX design using Figma and conducted 5+ user interviews to refine early-stage needs and use cases
- Worked on market research, grant applications and funding proposals to secure resources for platform development.
- Collaborated with 2 other developers to draft funding proposals and build prototype infrastructure

RateMyDiningHall – GitHub Repository
Dining Hall Rating Website, Tufts Hackathon — *February 2025*

- Built React pages to display user-submitted reviews, with interactive ratings, images, and like/dislike features
- Connected to a MongoDB backend for real-time updates and dynamic review display
- Designed and built the platform end-to-end with one teammate, demoed at the Tufts hackathon

Consensus Spectra Generator – GitHub Repository
CS166 Tufts — *December 2024*

- Developed method in Python used to download and generate consensus spectra for hundreds of mass spectrum graphs
- Ran consensus spectra through software to evaluate improvement of molecule generation

Arith
Lossy Image Compressor, CS40 Tufts — *November 2024*

- Worked with a partner to develop a lossy image compressor, implementing bit-packing, color space conversion, and discrete cosine transform for efficient storage and retrieval.
- Designed components for compression and decompression, focusing on performance, speed and modularity
- Wrote and executed unit tests to verify bit manipulation, compression accuracy, and decompression correctness.

EXPERIENCE

A2Empowerment Group - JumboCode, Tufts University
Software Developer — *September 2024 - Present*

- Collaborate with a cross-functional team (PM, tech lead, designer, dev partner) to deliver a survey feedback platform
- Follow Agile development practices including sprint planning, retrospectives, and code reviews.
- Contribute to engineering tasks across the stack, aligned with weekly project milestones

LEADERSHIP

Women in Computer Science Mentorship Coordinator — May 2024 – Jan 2025

- Coordinated the mentorship program within the club, consisting of 15 mentors/mentees.
- Worked with e-board to coordinate club initiatives and mentorship programs.