# Benjamin Z. Antonow

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## EDUCATION

**University of Michigan**                                                                                          Ann Arbor, MI
*Bachelor of Science in Computer Science, LSA Honors*                                                      *May 2026*
**Courses**: Operating Systems, Distributed Systems, Data Structures & Algorithms, Web Systems, Data Manipulation, Machine Learning, Computer Architecture, Discrete Math, Theory of Computation, Linear Algebra, Computer Security

## EXPERIENCE

**Software Engineer Intern**                                                                        May 2025 – August 2025
*Color Health*                                                                                                          *Burlingame, CA*
- Led development of Color's AI eval platform, creating modular abstractions that cut pipeline setup time by 70%
- Worked with clinicians to compile synthetic datasets and design experiments to asses the accuracy, reliability, and alignment of LLM outputs for clinical cancer care
- Presented company-wide talk on best practices for building scalable evaluation pipelines for AI clinical tools
- Selected for the 8VC Fellowship, a competitive program placing engineering students in 8VC portfolio companies

**Teaching Assistant, EECS 280: Programming and Data Structures**                      August 2024 – Present
*University of Michigan*                                                                                           *Ann Arbor, MI*
- Taught a weekly two-hour lab of 34 students to reinforce lecture concepts and provide hands-on programming help
- Provided instruction during office hours, guiding students through debugging C++ code, resolving technical issues, and clarifying course concepts
- Collaborated with faculty to develop exam problems and improve course for hundreds of enrolled students

**Operations & Technical Intern**                                                               May 2024 – August 2024
*JupyterHealth - UC Berkeley College of Computing, Data Science, and Society*                      *Berkeley, CA*
- Designed and developed website for an open-source health tech initiative within Project Jupyter, building enterprise data science software and data pipelines for wearables
- Defined user requirements with healthcare professionals and technical teams, ensuring product was HIPAA compliant and features aligned with patient and provider needs
- Refined open-source software documentation, improving for both technical teams and external stakeholders

**Freelance Software Developer**                                                               May 2024 – November 2024
*Focus For Democracy*                                                                                                      *Remote*
- Automated key organizational processes based on organizational needs, resulting in a 60% improvement in efficiency invoicing $40M+ in small donations pledged through Zoom webinars

## PROJECTS

**Thread Library** | *C++, Multi-Threading, Mutexes, Conditional Variables, Semaphores, Unix*
- Built a kernel-level C++ thread library in Unix with support for 80+ CPUs, handling thread management, context switching, interrupts, and scheduling, along with mutexes, spin-locks, and condition variables for synchronization

**Multithreaded Network Fileserver** | *C++ , Boost Library, Threads, Sockets*
- Built a crash-consistent, multithreaded network fileserver supporting multiple users and nested directories, using committing writes, Boost threads, reader-writer locks, and POSIX sockets

**Oreen** | *OpenAI platform*
- A fine-tuned AI diagram generation tool for teaching and learning with ChatGPT

**Silent Meditation**
- Produced a silent vinyl record for meditation, exceeding Kickstarter fundraising goal by 1000%
- Sold hundreds of copies, validating product-market fit and receiving coverage from major publications

## SKILLS & INTERESTS

**Languages**: Python, C/C++, JavaScript, Go, HTML/CSS, Assembly (RISC-V)
**Frameworks**: Flask, React, React Native, Django, pandas, Next.js, OpenMP, OpenMPI
**Technologies**: Git, AWS, PostgreSQL, SIMD, Posthog
**Interests**: Image Generation, AR/VR, AI/ML, HCI, Health & Wellness, Yoga, Art History, Guitar, Crossword Puzzles