# ETHAN BOWLES

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## EDUCATION

**University of Utah, Kahlert School of Computing**                                        Salt Lake City, UT
*Honors B.S. in Computer Science; Minor in Mathematics*                              Aug 2021 – May 2025
- Cumulative GPA: 3.77/4.00 — Dean's List: 2021–2025

## TECHNICAL SKILLS

**Languages**: Python, Java, TypeScript, JavaScript, SQL, C++, Bash
**Frameworks**: FastAPI, Flask, React, Vite, React Native, Expo, GraphQL
**Data / Infrastructure**: SQLite, Docker, AWS S3, Firebase, Git, Linux, JUnit, OpenCV
**Strengths**: Data Structures & Algorithms, Full-Stack, Testing, Documentation, Problem Solving, Collaboration

## EXPERIENCE

**Nichols Photolab**                                                                                  Millcreek, UT
*Systems & Automation Engineer (Part-Time)*                                              Jan 2026 – Present
- Owned and stabilized the lab's ROES-based production systems as the sole IT engineer, diagnosing critical failures, upgrading storage infrastructure, and restoring end-to-end processing across hundreds of stalled orders.
- Automated manual file movement and printing workflows with Python, reorganized servers and data pipelines, and authored documentation to reduce downtime, improve reliability, and enable a maintainable handoff.

**DataAnnotation**                                                                                        Remote
*AI Data Annotator (Freelance)*                                                            Jul 2025 – Present
- Evaluated LLM outputs for correctness, security, and performance while designing complex edge-case prompts and rubric-based feedback to surface recurring failure modes, improve training data consistency, and strengthen my understanding of effective prompt engineering and model behavior.

**University of Utah**                                                                             Salt Lake City, UT
*Teaching Assistant – Intro to Data Structures & Algorithms*                          Aug 2024 – May 2025
- Supported 200+ students through labs, weekly help hours, Piazza, and grading; clarified core data structures and algorithms concepts with actionable feedback.

**Myriad Genetics**                                                                                        Remote
*Software Engineering Intern*                                                    May–Aug 2023, May–Aug 2024
- Engineered a modular Python Click CLI to automate SSH key generation, Docker project setup, Java certificates, and Git configuration, reducing new-hire onboarding time by ~3 days and eliminating repetitive engineering tasks.
- Collaborated with physicians and scientists to build DNANexus and Looker dashboards and a streamlined intake form, enabling data-driven analysis of test effectiveness and patient outcomes.

## LEADERSHIP

**Quantum Computing Club, University of Utah**                                       Salt Lake City, UT
*Vice President*                                                                             Aug 2024 – Dec 2024
- Coordinated and led Utah IBM Qiskit Fall Fest 2024, organizing weekly technical workshops introducing students to quantum computing tools and ideas.

## PROJECTS

**PBVar (Pickleball Virtual Referee)** | *React Native, C++, OpenCV, Firebase, Git*          Aug 2024 – Present
- Built a mobile pickleball virtual referee that performs on-device video analysis with real-time object tracking, scorekeeping, and match statistics by implementing a C++ OpenCV court and ball/player tracking module integrated with a React Native (Expo) app and Firebase backend, achieving ~20 FPS with low latency.

**Summit Cheeseburger** | *React, FastAPI, GraphQL, SQLite, Docker, AWS S3*                 Jun 2025 – Present
- Built and am preparing to deploy a full-stack React web application that gamifies mountain summiting and burger eating, implementing a typed GraphQL API with FastAPI, a SQLite schema, secure S3 presigned uploads, Firebase authentication, python data pipeline, and Dockerized infrastructure for scalable production use.