ETHAN BOWLES

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PROFESSIONAL EXPERIENCE

Teaching Assistant, Intro to Data Structures and Algorithms — Salt Lake City, UT
University of Utah, Khalert School of Computing — Aug 2024 – Present
- Guided and assisted students in Intro to Data Structures and Algorithms by teaching lab sessions, hosting weekly help hours via Piazza, grading coursework, and administering tests.

Software Engineering Intern (Remote) — South San Francisco, CA
Myriad Genetics — Summers 2023 – 2024
- Developed a Python-based CLI using Click to automate team onboarding and routine tasks. Engineered a modular framework for seamless integration of team-specific commands, and pitched the solution to 120+ Tech Org members and executives, resulting in multiple team adoptions.
- Created interactive dashboards in DNANexus and Looker for Myriad's Cancer Patient Registry, developed a Python/Flask web form to track Health Intelligence Impact Report requests, and collaborated with medical specialists to present AI implementation strategies to 100+ attendees at Myriad's Tech Conference.

Camp Counselor — Salt Lake City, UT
Wasatch Kids Camp — Summers 2020 – 2022
- Supervised 50+ children, ensuring safety and a fun environment while collaborating with a team of three to manage activities, finances, and resolve issues.

EDUCATION

University of Utah, Khalert School of Computing — Salt Lake City, UT
Honors Bachelor of Science in Computer Science, Minor in Mathematics — Expected May 2025
- **GPA:** 3.787 (Dean's List: Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024)
- **Relevant Coursework:** Algorithms, Database Systems, Computer Networking, Intro to Cybersecurity, Senior Capstone, Linear Algebra, Real Analysis, Number Theory

LEADERSHIP EXPERIENCE

Vice President, Quantum Computing Club — Salt Lake City, UT
University of Utah — Aug 2024 – Dec 2024
- Organized and led preparations for IBM Qiskit Fall Fest 2024 by hosting an on-campus event, attending seminars, and facilitating club meetings.

President, Local TSA Team — Salt Lake City, UT
Technology Student Association, Granite Technical Institute — Aug 2020 – May 2021
- Led weekly meetings to discuss projects, provide coding assistance, and prepare teammates for competitions; placed first in the Utah State Championship for software development and competed at Nationals.

PROJECTS & SKILLS

PBVar – ReactNative, C++, OpenCV, Firebase — Aug 2024 – Present
- Developed a mobile app with real-time object tracking that serves as a virtual referee for pickleball games by tracking ball and court locations to make play calls (e.g., when the ball goes out of bounds).

MyriadCLI – Python, Bash, Docker, Git — May 2024 – August
- Automated critical onboarding operations with a Python/Bash CLI (including SSH key generation, Docker setup, Java installation with company certificates, and Git configuration), saving new hires days of work and generating an estimated annual savings of $20,000.

Drawing Application – Kotlin, XML, SQL, Git — March 2024 – May 2024
- Developed a drawing app using Android Studio and Kotlin that lets users create and edit drawings (similar to MS Paint); utilized RoomDB for persistence and implemented Jetpack Navigation with a modern UI framework using Compose.