

Ethan Bowles

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PROFESSIONAL EXPERIENCE

Teaching Assistant - Intro to Data Structures and Algorithms University of Utah, Khalert School of Computing

Salt Lake City, UT
August 2024 - Present

- Advised students as a Teaching Assistant for Intro to Data Structures and Algorithms.
- Lead lab sessions, provided assistance through weekly help hours and Piazza, graded assignments, and administered tests.

Software Engineering Intern (Remote) Myriad Genetics

South San Francisco, CA
Summers 2023-2024

- Developed a Python-based CLI using Click to automate team onboarding at Myriad and streamline routine tasks.
- Engineered a scalable, modular framework supporting seamless integration of team-specific CLIs and commands.
- Pitched the CLI to 120+ Tech Org members and executives, leading to team-wide adoption.
- Created interactive data visualization dashboards in DNANexus and Looker for Myriad's Cancer Patient Registry, providing actionable insights to consumers and physicians.
- Developed a Python/Flask web form to track Health Intelligence Impact Report requests.
- Collaborated with medical specialists on clinical data analytics and presented AI implementation strategies to 100+ attendees at Myriad's Tech Conference.

Camp Counselor Wasatch Kids Camp

Salt Lake City, UT
Summers 2020-2022

- Supervised, ensured safety, and fostered a fun environment for children. Collaborated with a team of three others to manage activities, handle finances, and address problems.

EDUCATION

University of Utah, Khalert School of Computing Honors Bachelor of Science in Computer Science, Minor in Mathematics

Salt Lake City, UT
Expected May 2025

- GPA: 3.8 (Dean's List: Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024)
- Related Coursework: Database Systems, Algorithms, Intro to Cybersecurity, Computer Networking, Linear Algebra, Number Theory, Senior Capstone

LEADERSHIP EXPERIENCE

Vice President of Quantum Computing Club University of Utah

Salt Lake City, UT
August 2024 - Present

- Organized and led weekly preparations for the IBM Qiskit Fall Fest 2024. Hosted an on-campus extension event as part of the festival. Regularly attended seminars and facilitated discussions/meetings on quantum computing.

President of Local TSA Team Technology Student Association | Granite Technical Institute

Salt Lake City, UT
August 2020 - May 2021

- Led and operated weekly club meetings, discussed group projects/progress, helped with code, and prepared teammates for upcoming competitions. Placed first in Utah State Championship for software development and competed at Nationals.

PROJECTS & SKILLS

MyriadCLI - Python, Bash, Docker, Git

May 2024 - August 2024

- Automated critical onboarding operations using a Python and Bash CLI, including SSH key generation, Docker environment setup, Java installation with company certificates, and Git repository configuration.
- Saved new hires days of work and generated an estimated annual savings of \$30,000 for Myriad upon full integration.

Drawing Application - Kotlin, XML, SQL, Git

March 2024 - May 2024

- Project built with Android Studio and Kotlin, allowing users to create new drawings and edit existing ones, like MS Paint.
- The app uses RoomDB to persist drawings while not running, and implements common standards such as Jetpack Navigation and a modern UI framework using Compose.

DuoAlgo, Sorting Algorithms Educational App - C++, Git

February 2023 - May 2023

- Leveraged QT Creator, C++, and Git in a team of 4, to develop a learning application to assist in the teaching of basic sorting algorithms. Program utilizes a learning, practice, and quiz section to solidify user understanding.

Language Proficiency: Python, Java, C#, C++, SQL, Git, Bash