

David Bean

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DATA SCIENCE - BIOINFORMATICS

Python | Extensively used in machine learning, data analytics, statistical analysis, and data visualization
R | R Studio for statistical projects, especially for hypothesis testing and preliminary data analysis
SQL | Proficiency in writing and executing queries, modifying data tables, and familiarity with relational database design
Git | Frequently used for collaborative projects and personal version control via linux/unix commandline interface
Bash | Used for bioinformatics project pipelines to execute multiple scripts and manage large volumes of data
Docker | Custom containers for running replicable pipelines in High Performance Computing environments

EDUCATION

Masters of Science in Biomedical Informatics Emphasis in Data Science and AI May 2026
University of Utah Salt Lake City, UT

Bachelor of Science in Biology Emphasis in Biomedical Sciences May 2023
Utah Tech University St George, UT

- Cumulative GPA 3.80 *magna cum laude*

LEADERSHIP AND WORK HISTORY

Research Assistant II

University of Utah – Department of Biomedical Informatics Jun 2025 – Dec 2025 | Salt Lake City, UT

- Training AI models for high precision tumor-only variant calling in large scale, multi-genome bioinformatics pipelines
- Construction and benchmarking of GPU-accelerated bioinformatic pipelines for tumor-only variant calling
- Clear communication of findings with a team of genomic scientists working toward solutions in precision oncology

Masters Student Representative

University of Utah – Department of Biomedical Informatics Aug 2024 – Present | Salt Lake City, UT

- Reviewing application materials of prospective students for the department admissions committee
- Providing guidance from personal experience and suggesting resources to prospective students via information sessions
- Coordinating study groups and academic support for fellow students of the program

Laboratory Instructor Biology 1625

Utah Tech University- Department of Biological Sciences Aug 2023 – May 2024 | Saint George, UT

- Instructed three classes of 18-24 undergraduate students in a collaborative biology setting
- Mentored students in experimental design, laboratory procedure, aseptic techniques, and statistical interpretation of data
- Organized and presented lectures, assigned feedback and graded presentations and lab reports

Tutoring: Freelance

May 2021 – Present | UT

- Developing and implementing personalized study plans for students of a variety of academic levels and backgrounds
- Emphasis is placed on introductory to intermediate programming skills, math, statistics, and career discovery

Tutoring: TRiO

Jan 2023 – May 2024 | Saint George, UT

- Provided individualized academic support to college students in trigonometry, calculus, python and R programming, statistics, biology, and chemistry through tutoring sessions