Justin Tirrell

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Experience

Sera Prognostics   Salt Lake City, UT
Software Engineer II (Laboratory Software)   May 2021 – present

- Authored C#, Python, SQL, and (Lims) Basic code to create and maintain internal applications/interfaces.
- Excelled in an environment that requires all software changes to be rigorously tested and documented.
- Provided application support and new features for the Laboratory's informatics application (LabWare).
- Played a critical role in the vendor selection process and the gap fit process for the lab informatics application.
- Certified as a LIMS Administrator (I & II) for the LabWare product (Clinical Health Template).

Unified Public Health Lab – Specimen Receiving   Taylorsville, Utah
Lead Sample Processing Tech (Covid)   July 2020 – May 2021

- Coordinated a team of 14 technicians across 3 shifts.
- Authored a Tkinter Python application to find and fix bad patient data before importing it into the lims.
- Used testing data to establish internal metrics for the state lab.

Education

Utah State University   Logan, UT
Bachelor of Science in Biology, *cum laude*. GPA 3.7
Awards:

- Awarderd the USU Undergraduate Researcher Designation
- Graduated with Department Honors (Honors Program)

Research:

- Applied mathematical, computational, and scientific techniques to model interactions of plant & animal populations.
- Focal question: How does local extinction of seed dispersers affect the biodiversity of tropical forests?

Relevant Coursework

- CS I, CS II, Data Structures & Algorithms, Programming for Scientists, Statistics for Scientists & Engineers.

Leadership & Activities

Salt Lake City LIMS User Group   Salt Lake City Metro Area
Founder   2022 – Present
- Organized quarterly networking events to skill share and discuss best practices.
- Industries include Petroleum, Pharmaceuticals, Clinical Diagnostics, Water Testing, and Government.

DefCon 435 / 801 Labs   Logan, UT
Member   2019 - 2020
- Regularly participated in the local chapter meetings for about 2 years.
- Attended SaintCon conference and BSides in 2023.

Skills & Interests

- **Technical**: Linux (Debian, Ubuntu, Alpine), Docker, Bash, SQL, Python, R, AutoHotKey, emacs ¯_(ツ)_/¯.