

Robert "Jonah" Deal

Software Engineering

Contact

(720)745-2869
r.jonah.deal@gmail.com

Education

Brigham Young University-Idaho
B.S. Computer Science
Expected December 2023
3.1 GPA

Skills

Languages, Tools and Frameworks:

Experienced: Python, Erlang/OTP, Git, Databases (SQL and noSQL)

Familiar: C, Swift, C#, html, Javascript (React), CSS

Additional Skills:

Communication, Object-Oriented and Functional Design Paradigms, Learning New Technologies

Recent Non-tech Employment

Agent | Squeeze Media | 2021-2023

- Responded personally to hundreds of client leads.

Account Resolution | Conservice | 2020-2021

- Researched and corrected commercial utility invoices.

Technical Work Experience

TA for CSE382 Patterns in Functional Programming | Dr. Lee Barney | Sept 2023 - Current

- Tutoring students in advanced functional programming topics
- Erlang/OTP as foundation language

TA for Experimental CSE170 Technical Teamwork Course | Prof. Kristi Hansen | January - April 2023

- Grading, leadership coaching and organization for the experimental class-wide final project

Freelance | Hire My Sub | November - December 2022

- Developing and integrating a Python application to automatically parse pdf documents for critical data.

Current and Recent Projects

Spectral Art

- Creative vectors of display of audio power spectral density
- User selectable source audio--From Operating Systems or analogue input
- Prototyping and simulating in Matlab's embedded systems suite
- Targeting embedded devices, desktops and web assembly

Final Assignment Modification Proposal | CSE251 Parallelism and Concurrency | Prof. Aaron Kay

- Presented to the team of professors responsible for the course
- Modifying final course assignment to require both IO and CPU bound tasks to better cover course material
- Isolating code changes using decorators (Python) and wrappers (C#)
- Creating a standard task that demands uniform time across a variety of machines

SwErl | Dr. Lee Barney

- Emulating Erlang's concurrency model in Swift including OTP features such as distributed nodes and Gen Servers
- Intended to encourage interchange between language-developers
- Applied as co-speakers for Code BEAM America—response pending

Git Gud

- Producing and directing student-led seminars on computer science topics
- Topics include game design, systems integration, and data science
- Upcoming topics: debugging, Git, and embedded development

Volunteer Experience

Activities Director | Society of Women Engineers | April 2023 - Present

- Create and organize valuable events for CS/EE students such as Git Gud Student Seminars (see above)
- Promote student retention by holding support events just before students stop attending lecture and drop classes

Missionary | The Church of Jesus Christ of Latter-day Saints | 2017 - 2019

- I served in Las Vegas, where I had the privilege of holding leadership positions with responsibility over other missionaries, and as Assistant to the Mission President

