

# Doug Lloyd

 Doug Lloyd |  msi1995 |  Personal Website |  lloyd.dg7@gmail.com |  661-916-2753

## EXPERIENCE

### Oregon State University - Institutional Analytics & Reporting

May 2021 – Present

*Developer*

Oregon State University - Corvallis, OR

- Designed and delivered end-to-end Selenium, Pandas, and Snowflake pipeline, which retrieved and aggregated millions of rows of data for use in cross-departmental applications within SLO
- Drove multiple Python workplace automation initiatives for testing, scraping, and observability standards
- Co-engineered hybrid AWS environment with VPN tunnel to on-prem resources to serve numerous entities at OSU
- Automated the creation of infrastructure & VMs using Terraform, Ansible, Packer
- Debugged code and wrote detailed, comprehensive documentation in a professional environment
- Project management & collaboration using GitHub, Jira, and Confluence

## EDUCATION

### Oregon State University

Sept. 2018 - June 2022

*Bachelor of Science, Computer Science | Program GPA: 3.64*

Corvallis, OR

- **Key Courses:** Data Structures, Algorithms, Advanced Web/Cloud Development, Mobile Development
- **Awards:** 6x Engineering Dean's List

## PROJECTS

### Weather Forecast Site | *React.js, HTML, CSS*

- Engineered SPA with React.js and React router using live data
- User can search for any city/area, including outside of the US; leverages the Openweather API to get forecast
- Utilizes async await, loading/action animations, has embedded map that centers on searched city and drops pin

### Web Reservation Bot | *Python, Selenium*

- Utilized Python and the Selenium library to create a bot capable of navigating itself through a multiple page booking process using Chromedriver
- Built into an all-in-one executable that contains dependencies such as Chromedriver binaries by using Pyinstaller
- Bot runs in the background and is capable of detecting current local time, and turning itself on at the correct time

### Interactive Shell | *C*

- Interactive shell created in C, capable of taking user commands, sterilizing, and handling properly
- Users can perform functionality expected of a shell such as seeing current directory, moving/deleting files, etc.
- Leverages the exec() library; specialized functions to override standard C Signals, or to run processes in background

### Other Projects | *C++, React, React Native*

- (*React Native*) - Mobile app aimed at enhancing safety at live events by allowing attendees of an event to check in and communicate with event organizers quickly. Geolocation/code to verify attendance.
- (*React, Emotion*) - Site allowing users to search a location and see businesses around the area (restaurants, nightlife, etc) in a card view. Clicking card drops a pin on embedded map and centers on the business. Leverages Yelp API.
- (*C++, OpenGL*) - Graphical animation of the solar system with mathematically correct orbital periods, distances, etc.

## PROGRAMMING SKILLS

**Languages:** Python, C++, C, JavaScript, HTML, CSS, SQL/NoSQL

**Frameworks/Tools:** React w/ hooks, Redux, REST/GraphQL, React Native, Django, Express, Selenium, AWS

**Skills:** Object Oriented Programming, Linux, Windows, GitHub, Jira, Confluence, Agile, UI/UX