James Parrott

jamesdpwa@gmail.com · (206) 661-4718 · LinkedIn · GitHub · Personal Website

EDUCATION

University of Washington **Seattle, WA**

Junior, Bachelor of Science in Informatics Expected Graduation: 06.2025

- Cumulative GPA: 3.5/4.0
- Relevant Courses: Data Structures and Algorithms, Algorithms and Computational Complexity, and Database Systems

SKILLS

- **Programming Languages:** Java, Python, SQL, HTML, CSS, Javascript
- **Frameworks:** IntelliJ, VSCode, JUnit Testing, Azure, Asterix DB

EXPERIENCE

Huskey Coding Project, Seattle, WA

Backend Lead 09.2023 – Present

- Part of a team of eight that's creating an app that would identify mushrooms.
- Used **Python** and **React.js** to create the backend and front end of the app. Used **SQL** to create the database of the app that would store the mushroom information.
- Provided identification of which mushrooms are poisonous or not.

Seattle Dentists, Seattle, WA

Dental Assistant 09.2022 – 02. 2023

- Saw three patients per day in a small local clinic.
- Built relationships with colleagues and patients since the start of employment.
- Cleaned patients' teeth with fluoride, and used patient rooms, and dental tools through the autoclave.

YMCA of Greater Seattle, Kent, WA

Lifeguard 10.2019 – 09.2021

- 15 other colleagues and I worked together routinely.
- Developed camaraderie and leadership within the YMCA community through constant engagement.
- Taught 100s of swim lessons from all kinds of skill levels and taught twice weekly.

TECHNICAL PROJECTS

Program Linting

- Analyzes Java files to detect errors and present them to the user.
- Used **object-oriented programming (OOP)** to create an **interface** that checks for the error condition with the line number. It then gets **implemented** in separate classes that check for any errors in the files. The files will be scanned line-by-line by a **for-each loop**, and the errors and line numbers will be saved in a **List**.
- Brings an understanding and assurance of the code quality and functionality of the program.

Absurdle

- The game picks a single secret word that the users must guess at the beginning of the game. The user's guesses will create an entire list of all possible secret words which conform to the user's guesses so far. Therefore, for each guess, the game prunes its internal list as little as possible.
- Used **nested collections** to sort out the guessed words and the set of words. The guessed word will be stored as a **key** and will correlate to the next set of words, stored inside as a **value** represented as a **Set**, that is similar to the user's guess. Utilized a **for-each loop** to repeat this process.
- Gained an insight into the importance of writing a precise and consistent program that saves space.

EXTRACURRICULAR ACTIVITIES/COMMUNITY INVOLVEMENT

Informatics Undergraduate Association, Seattle, WA

Honorary Member 09.2022 - Present

- Welcomed members to events
- Helped organize and find events/speakers for the club