Corben Roszak

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SKILLS

- Java, C, C#
- React Native, JavaScript
- SQL & MongoDB
- Python
- Docker

- Software design principles
- UML diagram design
- Structured Programming
- Linear & non-linear data structures
- Algorithm analysis & optimization

- Linux, macOS, Windows
- Version Control Systems
- Technical writing
- Task management tools

ACHIEVEMENTS

- Active researcher with Dr. Caroline Hardin in her lab working on multiple projects revolving around Computer Science Education.
- Completed a 10-week independent study researching best software design practices. Redesigned Western Washington University's current software design class with more applicable concepts and projects.
- Working on a research paper for a Spring submission on the topic of long term support for computer science education tangibles.

PROJECTS

- **SURLY Database**

Summary:
- Developed a heap-based database with a partner
- Created using Java with a focus on object oriented design
- Implemented basic SQL commands

Involvement:
- Deepened understanding of database functionality
- Created multiple test cases and documented results

- **Study Buddy Mobile App**

Summary:
- Open source app created in Tech for Social Good class
- Backed by research on creating good habits
- Developed using React Native app and Expo

Involvement:
- Lead the team and created backend solutions
- Worked with the full stack to solve blockers

- **Deadwood Game**

Summary:
- Created a multiplayer board game using C# and a GUI with a partner
- Designed and followed UML diagrams for board game design
- Developed using Model View Controller and other design patterns

Involvement:
- Developed the backend gameplay mechanics
- Maintained the Model View Controller separation and cohesion
- Maintained UML diagrams

EDUCATION

Western Washington University — Bachelor of Science Degree in Computer Science, Fall 2020

- Double Minor in Mathematics and Geology • Officer of the Object Oriented Design and Open Source clubs, Fall 2020

Olympic College — Associates of Arts, Spring 2017

EXPERIENCE

General STEM Tutor, Hawthorne Learning Solutions   **September 2020 - Present**

I tutor math and computer science to multiple students at various levels from middle school to college. I expand on lessons that the students know they have difficulty with and also teach topics from scratch that I believe the student will benefit from. I have developed excellent communication skills and become better at accommodating different learning styles.

Computer Science Mentor, Western Washington University   **September 2020 - December 2020**

Taught computer science concepts to students in Python, Java, C and, Racket. Helped students debug their programs and demonstrated good debugging practices. Was one of two mentors chosen to be a liaison with the faculty to discuss assignment difficulty and provide anonymous feedback from students.

Computer Science Tutor, Western Washington University   **September 2019 - December 2019**

Recommended by the head computer science advisor at WWU to personally tutor a student in an upper-division course. I answered questions and taught parts of the lessons that he had trouble understanding and reinforce the topics with extra questions.