JULIE K. RODRIGUEZ

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EDUCATION

Washington State University Aug. 2021 – May. 2023
Bachelor of Science in Software Engineering, Minor in Mathematics Everett, WA

TECHNICAL SKILLS

Languages: Python, C#, C, C++, Java, JavaScript, TypeScript, SQL
Technologies/Frameworks: Node.js, MongoDB, Pandas, NumPy, GIT, Junit, Nunit, Hunit Mockito, MySQL
Certifications: Google Management Professional (PMP), National Association of Rocketry (NAR)

EXPERIENCE

Everett Community College | *Computer Science Tutor* Jun. 2020 – Present
- Tutored five undergraduate students in data structures and algorithms Everett, WA
- Strengthened students' knowledge and three students received a 3.5 GPA and above

Washington State University | *Rocket Team Software Engineer* Aug. 2022 – Jun. 2022
- Programmed Arduino's used in the Washington State University's local rocket launches Everett, WA
- Conducted controller demonstrations for a team of 13 mechanical and electrical engineers
- Created a data recording application that logged sensor data from the on-board sensors and saves it to a microSD

Washington State University | Mentor/Instructor *for Girls Discover STEM* Seasonal
- Designed two lesson plans in an introduction to computer science curriculum for high school students Everett, WA
- Instructed conceptions in-person such as conditionals, loops, and functions in Visual Studio Code using Python
- Presented to 55 high school students about the various engineering programs offered at Washington State University

PROJECTS

Schweitzer Engineering Laboratories | *Lead of Capstone Team, Collaborative Coursework*
- Developed an augmented reality employee work instruction display application
- Implemented in C#, JavaScript, React
- Utilized the .NET Core framework, MySQL database, Apple ARkit
- Collaborated with two electrical engineers throughout the planning and development process

Product Recommendation
- Developed a recommendation system of products frequently browsed together by consumers
- Implemented the A-priori algorithm in Python using Visual Studio Code
- Created system diagrams and displayed confidence levels of item pairs

Housing Market
- Trained a linear regression model for predicting house prices in the USA using Python and scikit-learn
- Examined coefficients and listed the regression evaluation metrics to find any regression issues pertaining to outliers
- Created use case diagrams and system diagrams
- Achieved a testing accuracy of over 98% on a housing dataset of over 5,000 found on Kaggle

SWE Club Portfolio
- Developed a frontend for our local chapters Society of Women Engineer's club for members to keep up to date on events, meetings, activities, and links
- Implemented the frontend with Material UI in React
- Designed page layout prototypes in Figma to plan content organization
- Ensured design responsiveness for both desktop and mobile platforms

EXTRACURRICULARS

Society of Women Engineers (SWE) Club | *Chapter President* Aug. 2022- Present
- Recruited five cabinet members to start this club
- Expanded the chapter from one to 13 members in the span of one month
- Organized the club to attend the SWE 22 national conference

Association of Computing Machinery (ACM) Club | *Chapter Vice President* Aug. 2021- Present
- Aided in the organization of large events in the club chapter such as planning a hackathon and raising funds from local businesses