

# JULIE K. RODRIGUEZ

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## EDUCATION

### Washington State University

*Bachelor of Science in Software Engineering, Minor in Mathematics*

Aug. 2021 – May. 2023  
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  
Everett, WA

- Tutored five undergraduate students in Data Structures and Algorithm courses
- Strengthened students' knowledge resulting in three students receiving a 3.5 GPA and above

### Washington State University | *Rocket Team Software Engineer*

Aug. 2022 – Jun. 2022  
Everett, WA

- Programmed Arduino's used in the Washington State University's local rocket launches
- 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  
Everett, WA

- Designed two lesson plans in an introduction to computer science curriculum for high school students
- 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
- Promoted inclusion and diversity within STEM fields by giving encouraging presentations to future engineers

## 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

### 2FA TOTP

- Designed the backend for a two-factor authentication application
- Implemented backend with Node.js utilizing the Express framework and speakeasy library
- Utilized google authenticator for TOTP and included nodemon
- Utilized Postman to send get and post request from local host

### BloggerChain

- Developed a decentralized blockchain based blogging system
- Implemented in JavaScript, HTML, CSS and utilized bootstrap for frontend
- Utilized Ethereum smart contract, web3, and truffle framework for smart contracts
- Ensured responsiveness for any Ethereum network and decentralization

### 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 by raising funds from local business and promoting events within the club