



Megan E. Dolan

Software Developer

Details

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Links:
[GitHub](#) | [LinkedIn](#)

Relevant Experiences

Software Developer | *State Farm* June 2021 - Present

- Worked alongside 2 full-stack developers to maintain 12 .NET internal support tools involved in workstation deployment and software management
- Spearheaded efforts to implement automated test cases, resulting in a 20% increase in code coverage
- Collaborated with business partners to update tool requirements involved in automating workstation loading process, decreasing machine release time

Community Outreach Coordinator | *WSU* May 2020 - May 2021

- Organized and led a team of volunteers to create educational video tutorials for families to remotely engage in biological experiments amid a global pandemic
- Developed and managed the event website, YouTube channel, and Facebook page for marketing, resulting in increased event participation by 70%

Web Developer | *Freelance* May 2020 – July 2021

- Increased traffic of 2 faculty websites by developing UI/UX strategies for user-friendly publication pages and student research biographies
- Designed front-end code and applied WordPress plugins to support client needs
- Created and managed several educational video series to enhance educational goals for courses with over 100 students

Bioinformatics Researcher | *WSU* Aug 2019 - June 2020

- Utilized a new method to more accurately detect host-microbe correlations by writing an R script for non-linear dimensionality reduction analysis
- Selected as one of 200 presenters at the world's largest gathering of women technologists to showcase an innovative approach to study host-microbe relationships in the chocolate tree

Software Developer, Bacteriophage Database | *IWU* May 2018 – May 2019

- Dedicated 1 year to independently design, develop, and maintain a full-stack web application for 1/4 of biology faculty to efficiently maintain research data
- Effectively communicated software relevancy to front-end users (biologists) at the annual IWU John Wesley Powell research conference

Student Planner Development Project | *IWU* Aug 2018 – Dec 2018

- Collaborated with a team of 3 full-stack software engineers to resolve student concerns with assignment planning/event organization

Skills

Hard skills:

C#
●●●●●●●●●○

React
●●●●●●○○○○

JavaScript
●●●●●●●●○○

HTML/CSS
●●●●●●●●●●

Python
●●●●●●●○○○

BASH
●●●●●●●●○○

R
●●●●●●●●○○

Git
●●●●●●●●○○

SQL
●●●●●●●●○○

Soft Skills:

- Strong communicator
- Self-learner
- Problem-solver
- Team player
- Adaptable

Education

MS in Biology, Certificate in Bioinformatics | *Washington State University (WSU)*

Highlights: Data Science, Bioinformatics, Population Genetics, Grant Writing, Object-Oriented Software Principles, Human-Computer Interaction

BS in Biology, Minor in Computer Science | *Illinois Wesleyan University (IWU)*

Highlights: Computer Science I & II, Software Development, Algorithm Design and Analysis, Database Systems, Computational Discrete Mathematics

Hobbies

- DIY craft projects
- Writing
- Traveling
- Sustainable living hacks
- Community service