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LinkedIn



GitHub



Project Website



15 Milton Road, Pensacola FL 32507

KEY SKILLS

- Programming Languages: Python, JavaScript, C, HTML/HTML5, CSS/CSS3
- * Frameworks and Development Tools: Tailwind, ReactJS, NodeJS, Express, Flask, Vite, Turf
- Databases: MongoDB, PostgreSQL, SQL
- Concepts: RESTful API, Software Development Lifecycle, Responsive Design, Object Oriented Programming
- Software: Microsoft Suite (Word, Excel, OneDrive, Outlook, Teams)
- Project Management: Agile Development Practices, Continuous Integration/Continuous Delivery

Meagan Welch

JUNIOR SOFTWARE DEVELOPER

EDUCATION & PROFESSIONAL DEVELOPMENT

Bachelor of Science in Computer Science

Jan '24 - Dec '24

Oregon State University | Corvallis, OR

- Courses Included: Network Security | Intro to Networking | Intro to Computer Science I and II: Python Fundamentals | Data Structures: Python |

Analysis of Algorithms: Python | Web Development: React, Node JS, MongoDB | Intro to Databases: MariaDB, MySQL, Python/Jinja Operating

Systems: C | Software Engineering I: React, Python | Software Engineering II: Testing, GitHub CI/CD |

Computer Architecture and Assembly:

Assembly Language

- Capstone Included: Industry-led group project with a tech stack that included Vite, Typescript, ReactJS, Mapbox GL JS, Turf.js, and C#| Collaboration

with Stakeholders including Project Managers and UI Designer | Development team incorporated Continuous

Integration, GitHub Project, Scrum

Meetings, and Code Reviews

Bachelor of Arts in Agriculture

May '15 - May '17

Evergreen State College | Olympia, WA

PROJECTS

HOSPITAL DATABASE

Tools: Backend: Python, Flask, PostgreSQL | Front-end: Jinja, CSS

Designed a comprehensive Hospital Scheduling System database to facilitate CRUD operations.

- Utilized PostgreSQL to **proficiently craft intricate SQL queries**, with a focus on leveraging SQL capabilities, particularly for accessing data
- Transformed an ER-Diagram into a relational Schema using **ER-Diagram & Relational Schema tools**, leading to increased efficiency & enhanced data management
- Optimized user experience by utilizing Jinja to develop a user-friendly UI, **abstracting SQL queries** for enhanced usability, & incorporating interactive elements & responsive design

PERSONAL LIBRARY APP

Tools: Backend: Python, MongoDB, Flask, Blueprint | Front-end: ReactJS

Developed an interactive app allowing users to track books they have read or want to read, integrating GoogleBooks API for enhanced book information and user experience.

- Leveraged the ReactJS framework in the frontend interface to craft a dynamic, user-friendly design, enabling users to **effortlessly manage their bookshelf, queue, & favorite items** with features such as adding, removing, & updating items
- Implemented a RESTful style architecture for both client & server, integrating the backend with a **NoSQL MongoDB Collection** to enhance data management scalability

- Established a streamlined development process by implementing a configured pipeline from **GitHub to Heroku for continuous integration & deployment**

WORK HISTORY

Undergraduate Learning Assistant

Apr '23 - Apr '24

Oregon State University | Corvallis, OR

- Facilitated weekly Q&A sessions during office hours assisting 25+ students to ensure clarity & understanding
- Rendered detailed feedback on **30 student submissions per week** through the utilization of the program's automated grading system, Gradescope
- Nurtured a supportive online community on EdStem by **swiftly addressing student queries** to enhance learning experiences
- Utilized Gradescope's Code Similarity feature to conduct plagiarism checks on assignments, resulting in a **significant decrease in academic dishonesty cases**

Quality Assurance Specialist

Oct '17 - Apr '23

WSDA | Olympia

- Ensured adherence to specific WSDA QA standards among employees, leading to **improved product quality & increased customer satisfaction** through regular training sessions
 - Enhanced team leadership decision-making process by consistently updating on quality metrics, requiring consistently strong communication skills & attention to detail.
 - Monitored product standards and recorded inspection findings, maintaining a 95% alignment with FGIS BAR.
 - Collaborated with management to conduct training sessions on optimized operations, resulting in a 20% reduction in errors
 - Inspected, verified, and documented 100+ characteristics monthly of export goods by comparing them against customer specifications and company quality standards.
 - Maintained inspection journals as required using **Excel spreadsheets** to ensure regulatory compliance for annual audits.
 - Demonstrated proficiency in operating & testing commercial weights & measures equipment to validate **accurate calibration**
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