

# MEAGAN WELCH

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## SOFTWARE DEVELOPER

Software Development Frameworks | SQL & Relational Databases | Continuous Integration  
Software Development | Software Design, Implementation & Testing | Code Management

**Bachelor of Science in Computers Science Graduate and aspiring Software Developer** with an innovative portfolio exhibiting proficiency in programming languages such as Python and JavaScript. Demonstrated ability to collaborate effectively with cross-functional teams to deliver high quality products that meet client needs and expectations. High-level interpersonal skills with experience working independently and as part of a team.

**Programming Languages:** Python, JavaScript, C, Typescript, SQL, HTML5, CSS3  
**Frameworks:** ReactJS, NodeJS, Express, Turf.js, Tailwind, Flask, MapboxGL JS  
**Operating System:** MacOS, Linux, Windows  
**Databases:** MongoDB, MariaDB, PostgreSQL  
**Version Control:** GitHub, Git  
**IDE:** Visual Studio, Visual Studio Code, PyCharm, Xcode  
**Productivity Management:** Asana, GitHub Projects, Jira, Agile, Scrum  
**Software:** Microsoft Office Suite (Word, Excel, OneDrive, Outlook, Teams), Vite  
**Design Tools:** PowerBI, Figma, Adobe

- Continuous Integration (CI)
- Continuous Delivery (CD)
- RESTful API
- Microservices Architecture
- Stakeholder Relations/Engagement
- Software Development Life Cycle (SDLC)
- UI Design Principles
- Software Testing
- Analytical Problem Solving
- Workflow Optimization
- Responsive Design
- Object Oriented Programming

## EDUCATION & PROFESSIONAL DEVELOPMENT

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE** Oregon State University, Corvallis, OR 2024

- **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** Evergreen State College, Olympia, WA 2017

## INDEPENDENT PROJECTS on [GITHUB](#)

### 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.

- Frontend interface uses ReactJS to create a responsive, modern design. Features include, add, delete, and update for a user's bookshelf, queue, and favorite items.
- The client and server follow a RESTful style architecture, with the backend connecting to a MongoDB Collection for data management.
- Deployed to Heroku with a configured pipeline from GitHub.

### HOSPITAL DATABASE

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

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

- Demonstrated ability to write complex SQL queries.
- Designed and ER-Diagram and translated into a relational Schema.
- Created a user-friendly UI with the template engine Jinja for Python.

## WORK HISTORY

### **Undergraduate Learning Assistant** | Oregon State University - Corvallis, OR, 04/2023 – 04/2024

- Conduct weekly office hours to offer guidance on assignments and address logistical inquiries from students, ensuring clarity and understanding.
- Evaluate student submissions using the program's automated grading system, Gradescope, providing constructive feedback and facilitating regrade requests for assignments, midterms, and finals.
- Engage with students on the class public board, EdStem, during designated hours, offering assistance and resolving queries to enhance their learning experience.
- Implement plagiarism checks on assignments using Gradescope's tools, generating detailed reports for professors as needed to maintain academic integrity.
- Utilize platforms such as Gradescope, Canvas, and GitHub to streamline administrative tasks and foster efficient communication channels among professors, fellow ULAs, and students.

### **WSDA - Quality Assurance Specialist** | Olympia, 10/2017 - 04/2023

- Educated employees on specific WSDA QA standards and ensured maintenance of standards.
- Provided regular updates to team leadership on quality metrics by communicating consistency problems or deficiencies.
- Monitored product standards and recorded inspection findings, collaborating with department managers to implement procedural remedies.
- Collaborated with management to provide training on improved processes and assisted with the creation and maintenance of quality training materials.
- 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.
- Tested and operated equipment to confirm correct calibration while scheduling routine, preventive, and reparative maintenance.