

# Serena Mower

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## TECHNICAL SKILLS

**Programming Languages** — C#, JavaScript, HTML, SQL, Python

**Experience With** — AWS, Snowflake, BitBucket, SQL Server, MongoDB

## WORK EXPERIENCE

**Enercon Technologies, Gray, ME** | *Junior Systems Developer* | APR 2024 - MAY 2025

- Developed an internal web app and four production web apps to help the IT team through an ERP Upgrade.
- Internal tool was a web app for creating API requests or SQL execution statements, utilizing a middleware system to execute the requests. Allowed POST, GET, various types of SQL statements, and some system specific calls.
- Others were web apps that connected to the upgraded version of our ERP system and were required for a successful upgrade to meet the specific customizations for our business that the base ERP system didn't allow.

**IDEXX Laboratories, Westbrook, ME** | *Quality Engineering Intern* | MAY 2021 - AUG 2021 ~ MAY 2022 - OCT 2022

- Developed an onboarding program for new Software Engineers in Test that highlighted Agile project management and high-level data engineering concepts.
- Worked with the Data Engineering team to develop Python and SQL scripts for testing.

**Enercon Technologies, Gray, ME** | *Manufacturing Specialist* | MAY 2020 - JAN 2021 ~ JUN 2023 - AUG 2023

- Prepared components and printed circuit boards for use in the SMT (Surface Mount Technology) machines, along with tending to the needs of the machine to keep it running.

## EDUCATION & PROJECTS

**Worcester Polytechnic Institute, Worcester, MA** — B.S. in *Computer Science & Minor in Creative Writing*

AUGUST 2020 - MAY 2024 ~ **GPA: 3.8, High Distinction**

### **Pillar Medication Adherence Solution: Major Qualifying Project — Flutter**

- Worked with five other students to develop a working prototype and Flutter mobile application for medication adherence.
- Application functionality includes communicating via Bluetooth to an Arduino Nano 33 BLE, sending scheduled local notifications to users, and utilizing Firebase to store and retrieve user medication data.
- Primary role was in developing the application using the no-code solution Flutter Flow and custom Flutter code functions.

### **StacksOverflow Web Application — React and AWS**

- Co-led a team of four students in developing a crowdfunding web application using a React frontend and AWS backend.
- Primary role was in developing the frontend and setting up AWS API Gateway connections between the front and backend.

### **youFree? Scheduling Web Application — React, Node.js, and MongoDB**

- Worked with four other students to develop a web application similar to when2meet that allows users to create event plans, invite people to the events, and find times every member is available.
- Primary role was in developing the sharing functionality, deleting and creating new events, and determining available times.

### **Walk2School Initiative: Interactive Qualifying Project — Technical Writing**

- Traveled to Karmiel, Israel to work with Ort Kramim High School and a team of four other students on reducing traffic congestion by encouraging students to walk to school.
- Developed a mobile application that allows users to track their steps, see their rankings, and collect rewards.
- Primary role was in writing the research paper and related documents for the project.

## PERSONAL STATEMENT

I am the type of person who loves solving puzzles and understanding how systems work. I have a unique mix of critical thinking skills and creative writing abilities that help me communicate and explain effectively to people of varying degrees of understanding of a topic. I am curious and constantly am trying to discover the best way to do something, but also understand how important it is to know what is already being done in a system before you try to change it.