

# Jeff Gordon

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## Summary

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Sophomore B.S. Software Engineering student with 2 internship experiences and numerous software project experiences. Involved in multiple co-curricular clubs, 4 years of experience programming websites, AI, and embedded systems, with skills in Python, C, Java, and Bash.

## Education

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**B.S. Software Engineering** | Milwaukee School of Engineering | GPA: 3.8 | Exp. May 20XX

## Technical Skills

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|---------|-----------------|--------------|-------------|
| ▪ C     | ▪ Python        | ▪ HTML       | ▪ Git       |
| ▪ C++   | ▪ Java          | ▪ CSS        | ▪ GitHub    |
| ▪ Bash  | ▪ JUnit Testing | ▪ JavaScript | ▪ WordPress |
| ▪ Linux | ▪ PHP           | ▪ GIMP       | ▪ Apache    |
| ▪ SSH   | ▪ NFS           | ▪ SEO        |             |

## Software Internship Experience

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**Website Developer** | Midwest Instruments & Controls | Rice Lake, WI | Sept 20XX – Present

**Project:** Redesign and reword Midwest Instruments & Controls' multi-page website in order increase customer appeal and engagement as well as improve search engine optimization.

- Updating text and layout of website using WordPress.
- Changing CSS, and HTML to implement advanced changes to layout.
- Integrated money exchange functionality using WooCommerce.
- Implementing C.R.A.P. design method to create intuitive and easily readable website.
- Creating Search Engine optimized text on website to improve visibility on google and other search engines.

**Intern** | Midwest Instruments & Controls | Rice Lake, WI | May – Sept 20XX

**Project:** Create water flow meter to wirelessly transfer data to remote LCD display for use in irrigation, agriculture, aquariums, and more.

- Worked in Scrum environment to create flexible design process with team.
- Researched microchips for Sub-Gig communication to find best fit for wireless flowmeter.
- Programmed Sub-Gig transmitter and sensor micro controller as well as receiver and collector micro controller for gathering and transferring flow data between sensor and remote display in C.
- Programmed chip that controlled LCD display to show flow data to user in C.
- Created PCB boards to solder micro controllers onto using Eagle CAD software.
- Tested radio range and packet drop rate of communication to tune frequency, baud, and TX power.

## Software Engineering Project Experience

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**Personal Website Project:** Create multi-page, clean, user-friendly personal website to showcase engineering project work.

- Programmed home page, about me page, and my projects page using HTML5, CSS, and JavaScript.
- Branched and merged code using Git and GitHub to seamlessly save website code.
- Created small design elements and animation features using Gimp.
- Created simple animations using JavaScript to increase user interest and engagement.
- Designing friendly, easy-to-use website by implementing User Experience methods such as C.R.A.P. and IA.
- Hosted website using Apache2 on my Raspberry pi to show it to the internet.

**Markov Chain AI Project:** Design an AI to parse through text and generate sentences or paragraphs based off text read.

- Creating AI that can generate unique sentences from text passed in using Markovify python library.
- Enforcing English sentence rules using Spacy python library to improve generated sentence coherency.
- Retraining AI on its own sentence outputs to improve context between sentences.
- Further improving context between sentences by using short-term and long-term sentence memory system

**Computer Cluster Project:** Build multi-computer cluster that can be used for processing-intensive programs and tasks.

- Designed and built server rack by welding and fabricating steel and plexiglass to store 4 computers.
- Installed Ubuntu on each node in cluster for an operating system.
- Changed nodes' IP to static using netplan tool to easily connect to each node in network.
- Installed SSH and WakeUpOnWAN to wake up nodes and remotely access them.
- Created network shared storage on each node using NFS to easily transfer files between nodes.
- Currently trying to send task commands to each node using RabbitMQ and control them like a cluster.

## Work History

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**Deli Worker** | Marketplace Foods | Rice Lake, WI | June 20XX – August 20XX

## Co-curricular Involvement

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**Student Volunteer** | Student Union Board | August 20XX – Present | 2-6 hrs/wk

**Member** | MSOE Artificial Intelligence Club | December 20XX – Present | 1-2 hrs/wk

## Interests

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Creating Digital Art | Running | Exploring Milwaukee | Mountain Climbing