

Mathom Johnson

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Education

University of Wisconsin-Madison

May 2027

Majors: Computer Science (B.S), Data Science (B.S) - **GPA: 4.0/4.0**

Relevant Coursework: Programming II/III (DSA), Data Science Modeling I, Discrete Math/Linear Algebra, Intro to AI

Experience

Software Engineer Intern, Wisconsin Messenger

June 2024 – December 2024

Email Newsletter Startup @ UW-Madison

- Collaborating with an Agile team of engineers to develop Python scripts for web-scraping world news articles.
- Building NLP Machine Learning model based on Naive Bayes and TF-IDF vectorization to categorize articles.
- Implementing best practices for Git workflow, such as feature branching and pull request processes.

internationalbadgerbonds.pythonanywhere.com

May 2024 – October 2024

Website Development

- Led the development of the website to facilitate the club goal of connecting international students to mentors.
- Integrated Google Calendar API into virtual calendar to allow students to schedule Google Meets with mentors.
- Designed database models to store encrypted user and meeting information like usernames and email addresses.

Canvas Text Messenger

January 2024 – February 2024

Canvas/SMS APIs (personal project)

- Developed Python script that texts my Canvas grades to my phone on Tuesdays and Thursdays.
- Implemented the Canvas API to obtain grade data alongside the SMS texting API PyTextNow.
- Used Linux virtual machine on Google Cloud to host project files and Crontab to run script automatically.

Wordle Solver

March 2024

Web-Scraping + Algorithms (personal project)

- Developed an algorithm to solve the daily Wordle in linear time with > 95% success rate.
- Used a Chrome WebDriver and web-scraping to access the Wordle and display it as it is being solved.

Leadership & Community Involvement

Machine Learning Marathon

September 2024 – November 2024

Disaster Tweets

- 3-month hackathon focused on team collaboration and exploring Machine Learning/Data Science techniques.
- Developing and fine-tuning NLP models to classify tweets as “Disasters” or “Not Disasters”.
- Performing Exploratory Data Analysis on datasets using tools like R, Pandas, NumPy, and Matplotlib.

International Badger Bonds

May 2024 – October 2024

Mentor

- Helped build a UW-Madison startup to advise incoming international students on how to adjust to a new social and academic environment.
- Met with incoming students pursuing C.S. to prepare them for the type and amount of work in the major.
- I talked with international students to discuss everything UW-Madison, from weather to academics.

Certifications

Supervised Machine Learning: Regression and Classification

August 2024

Coursera – Stanford Online, DeepLearning.AI

- Built linear/logistic regression models using NumPy and scikit-learn.
- Trained Machine Learning models for prediction and binary classification tasks.
- Understood the Linear Algebra and Calculus behind gradient descent applied to linear and logistic regression.

Credential ID: <https://www.coursera.org/account/accomplishments/verify/AQD9HJTRW1T5>

Skills

Java, Python, ReactJS, NodeJS, R, SQL, Django, JavaScript, TypeScript, HTML/CSS, Git, ScikitLearn, Pandas, NumPy