

## Blaize Lahman

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### Education

#### University of Wisconsin-Madison

Madison, WI

BS in Computer Science, BS in Data Science, and Certificate in Economic Analytics Student

May 2027

GPA: 3.68/4.0, Dean's List Fall 2024 - Spring 2025

**Relevant Coursework:** Systems Programming, Data Structures and Algorithms, Object-Oriented Programming, Data Science Programming, Machine Learning and Statistical Modeling, Discrete Mathematics, Linear Algebra

### Technical Skills

**Proficient Languages:** Go, Python, C, TypeScript, Java, SQL, R, HTML, CSS

**Tools:** Git, Docker, AWS, pandas, NumPy, Matplotlib, Scikit-learn, PostgreSQL, React, Next.js, Spring Boot, MongoDB

### Technical Projects

#### EnrollAlert - Course Enrollment Notification Service

May 2025 – July 2025

- Designed a full-stack cloud-native pipeline that tracks seat availability for over 5,000 UW-Madison courses and serves real-time data to 30+ active users via a REST API at [enrollalert.com](https://enrollalert.com).
- Built a batched, concurrent scraper in Go to conduct scheduled scrapes of new data from the UW-Madison course enrollment API, ingesting 30k+ responses an hour and updating the PostgreSQL database with course seat changes.
- Deployed a TypeScript/Next.js powered frontend on Vercel that communicates with database via REST API endpoints to provide instant course search, course seat data retrieval, user authentication, and course alert management.
- Architected an AWS-based infrastructure to run automated scraping with Lambda/EventBridge and dispatch course alert notifications through SES, providing users with course data and alert emails within 10 minutes of seat changes.

#### College Football Prediction Model

May 2024 – August 2024

- Developed a sophisticated linear regression model for projecting college football game outcomes in Python.
- Gathered, cleaned, and augmented game statistics from 10k+ games to generate model-friendly team data through utilizing pandas, NumPy, and Selenium functionalities.
- Applied advanced machine learning techniques using Scikit-learn to optimize the model, achieving a success rate of 57.5% over 5 seasons when predicting against sportsbooks, aligning with industry-best performance standards.

### Work Experience

#### UW-Madison Department of Computer Sciences

Madison, WI

##### Undergraduate Teaching Assistant - Data Programming II

January 2025 – Present

- Hosts regular office hours to personally assist students by clarifying course material and debugging Python code, catering to individual learning needs to strengthen understanding of data programming concepts and practices.
- Collaborates with head teaching assistant in leading lab sessions, guiding over 20 students through hands-on data programming exercises while creating an engaging and positive learning environment.
- Monitors and responds to student discussion board posts, facilitating class-wide discussions that enhance understanding of course topics which include NumPy, pandas, Scikit-learn, Matplotlib, and Git.

#### Stonehurst Place Bed and Breakfast

Atlanta, GA

##### Facility and Supplies Coordinator

May 2024 – August 2024

- Oversaw organization and transportation of materials across multiple facilities for a Michelin Key bed and breakfast.
- Designed and implemented an optimized storage system, decreasing retrieval time and enhancing cleaning efficiency.

#### Dishwasher

July 2023 – May 2024

- Aided staff in cleaning duties by efficiently gathering, washing, and storing the dishes of up to 16 guests and 8 rooms, allowing innkeepers to focus on guests and amenities.

### Leadership & Activities

#### Phi Kappa Sigma International Fraternity

Madison, WI

##### Risk Management Chair

December 2024 – Present

- Oversees the safety and well-being of over 200 attendees at social events, implementing and enforcing safety policies in order to provide a secure and welcoming environment.
- Ensures all organization events comply with university regulations, coordinating with university officials and governing council members to guarantee safe social gatherings.
- Facilitates the completion of harm prevention and risk management training by over 50 chapter members, certifying that all members are educated in responsible event hosting and important safety practices.