

# Maxim Maeder

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## Education

### University of Wisconsin-Madison

BS in Computer Science, Data Science

Related coursework: algorithms, data structures, computer architecture, statistics, data science

Expected May 2026

Major GPA: 4.0 / 4.0

## Skills

**Languages:** JavaScript, Java, Python, C/C++, C#, TypeScript, R, Swift, SQL

**Frameworks:** node.js, React, Next.js, Express, Angular, .NET

**Tools:** Docker, Git, Amazon Web Services (AWS), Google Cloud Platform, Linux/Unix

## Experience

### Capital One

Richmond, VA

#### Software Engineering Intern

June - August 2024

- Developed and deployed CI/CD stages for a mission-critical arm of the business to test automated failover between AWS regions in case of disaster
- Implemented a RESTful backend using C#, DynamoDB and Localstack enhancing CI/CD task visibility
- Designed and developed a React micro frontend to manage active CI/CD runs, then demoed it to 100+ stakeholders

### Langan Engineering & Environmental Services

Parsippany, NJ (Remote)

#### Software Engineering Co-Op Student

September 2023 - May 2024

- Created an efficient algorithm to estimate vehicle traffic and delays along different routes given historical data using machine learning models, yielding actionable insights for the Langan Traffic Engineering division
- Produced multiple internal HR tools in C# and Angular for use by over 1,600 Langan employees

### UW Computer Science Department

Madison, WI

#### Undergraduate Teaching Assistant

September 2023 - May 2024

- Assisted students enrolled in Programming II with their Java projects by helping them debug and offering conceptual explanations

### UW Space Science and Engineering Center

Madison, WI

#### Software Engineering Intern

May - August 2023

- Developed dashboard to analyze data acquired from GOES weather satellites to detect imager and other data quality issues, improving data load speed by 60% over replaced legacy application—now used by NASA, NOAA engineers
- Collaborated with team of scientists to develop testing and instrumentation software for new spectroscopy instrument

## Projects

### Voice Activated, Cellular Smart Glasses

May 2024 - Present

- Designed and built custom glasses frames and necessary internal electronics to respond to the user and connect to the internet
- Wrote firmware for the two internal microcontrollers in C, using Zephyr and FreeRTOS, as well as a com protocol between them
- Created Node.js backend to respond to user queries using LLMs and 3rd party APIs, keeping the average response time < 2 secs

### Course Schedule Downloader

September 2022 - Present

- Wrote a Chrome extension in Typescript used by 500+ students at UW-Madison each semester to download their class schedule

### DriveBackupV2

June 2020 - Present

- Built DriveBackupV2, a game server backup plugin written in Java that now holds over 20,000 downloads
- Integrated backup plugin with five popular cloud backup services including Google Drive using a Node.js backend
- Plugin concurrently deployed on over 1,000 game servers worldwide and has an average uptime of 97%

More projects showcased on [mmaeder.com](https://mmaeder.com)

## Leadership and Activities

### LeetCode Club UW

Madison, WI

#### President

September 2023 - Present

- Launched a new computer science club which aims to help students get top tech internships and jobs
- Recruited +1,200 students to join in our first semester, and led meetings each with an attendance of up to 250 students