David Sklar

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EDUCATION

**University of Wisconsin-Madison** Madison, WI

Bachelor of Science: Computer Science, Data Science December 2026

Certificate in Business Cumulative GPA: 3.95/4.0

EXPERIENCES

**President of Freestyle Team** Madison, WI

*Hoofers Ski and Snowboard Club* August 2024 – Present

* Developing and coordinating a comprehensive plan to provide skiing access to all club members during the winter season.
* Establishing the team budget by analyzing club funding and anticipated income.
* Dedicating over 30 hours annually to volunteer efforts for the Ski Resale event to significantly boost the club’s endowment and which supports future activities.

**Undergraduate Research Assistant** Madison, WI

*University of Wisconsin-Madison: Macrostrat Lab* February 2024 – Present

* Redesigning the **Macrostrat** and **Rockd** website in collaboration with the software development team through a publicly available web repository to create a user-friendly interface to interact with the world's largest homogenized geologic map database.
* Migrating Rockd’s and Macrostrat’s homepage from static HTML to a React/Vike app while modernizing the site and making the page more dynamic by interacting with the existing geological database.

**Projects**

Rockd Web Development (TS, JS, CSS) July 2024 – Present

* Working closely with the software development team to redesign the “Trip Viewer” and “Explore” interface, improving UX and speed when interacting with databases.
* Designing the webpage to effectively interact with the new API, enhancing the interaction for improved data retrieval and user experience.

Macrostrat Web Development & Testing (TS, HTML, CSS) February 2024 – August 2024

* Moved images from the website codebase to an S3 bucket to decrease repository size.
* Enhanced readability of code by transitioning intricate components of each page to separate files.

**Chief Technology Officer** Madison, WI

*Snow Scholars* June 2023 – January 2025

* Grew the company from inception to a $750K valuation and secured an investment from Mark Cuban on Shark Tank.
* Researched and formalized an official software plan for the following winter season with an emphasis on scalability and redundancy while maintaining the goal of increasing the value the software brings to the company.

**Projects**

Central Database Migration (SQL) June 2024 – September 2024

* Transitioned the central database from Google Cloud Services to an AWS PostgreSQL database to enhance security, performance, and redundancy of data and its interactions.
* Conducted comprehensive testing of the new database and its integrations with existing company software to ensure a seamless transition between services.

Web & App Development (HTML, CSS, JS) October 2023 – December 2023

* Redesigned the official company app hosted on Retool by simplifying the employee interface.
* Developed a real-time snow removal tracking system for the customer service team by integrating shoveler locations, snow removal progress, and employee availability to enhance customer satisfaction and streamline inquiries.

SKILLS

Programming Languages: Java, Python, Javascript, TypeScript, Bash, R, C, SQL, HTML, CSS, Assembly

Software: AWS, Linux, Retool, Wix, PostgreSQL

Concepts: Object-Oriented Programming, Data Structures, Algorithms, UX, SEO, Databases