



# Max Bublik




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## Education

- 2021 – 2025     **University of Wisconsin - Madison**  
B.S. in Computer Science, Data Science, and Mathematics  
GPA: 3.27/4.0  
Relevant Coursework: Artificial Intelligence, Quantum Computer System Architecture, Linear Optimization, Probability Theory, Algorithms, Compilers, Linear Algebra
- 2017 – 2021     **DC Everest High School**  
Graduated Summa Cum Laude with Academic Letter. GPA: 3.89/4.0, ACT: 34/36



## Skills

- Coding     Python, Java, R, C, C++,  $\LaTeX$ , MySQL
- Mathematics     Linear Algebra, Probability Theory, Stochastic Processes, Optimization
- Leadership and Collaboration     Risk Management, Event Planning and Organization, Design


## Employment History

- 2024 – Present     **DJ**, The Kollege Klub, Madison WI
- 2024 – Present     **Bartender**, Camp Trippalindee, Madison WI
- 2024     **Research and Development Intern**, Sydney Executive Plus, Sydney Australia
- 2023     **Server**, Graze, Madison WI
- 2020 – 2022     **Server**, Chef's Hat Cafe, Ephram WI
- 2019     **Host**, Tine and Cellar, Weston WI
- 2019     **Lifeguard**, YMCA, Wausau WI





## Leadership and Involvement

- 2025 – present     **Hoofers Sailing Club**, Commodore  
Acting President of the Hoofers Sailing Club, organizing captains of fleets and representing organization within Wisconsin Union Directorate.
- 2023 – 2025     **The Vault - UW Madison**, Events Lead  
Orchestrated and planned events for premier UW-Madison Business-Fashion student organization. Consultant for past semesterly Fashion Shows and upcoming collaboration with Frank Lloyd Wright Foundation.
- 2024 – Present     **Ski for Cancer**, Chairman  
Helped lead a philanthropic organization that raised over \$120,000 for the MACC Fund for pediatric cancer research. Helped orchestrate fundraising events and connect businesses like Wisco Design Team and Red Bull with philanthropy.
- 2022 – 2023     **Theta Chi Fraternity**, Vice-President of Health and Safety  
Acted as the fraternity's health correspondent to provide physical, mental, and personal health support.
- 2019-2021     **DECA**, School Store Manager  
Oversaw the operation and logistics of the largest school store in a public Wisconsin school. Collected sales analytics to optimize inventory management and profitability.

## Leadership and Involvement (continued)

- 2018-2019      **Boy Scouts of America**, Senior Patrol Leader  
Responsible for organizing weekly troop meetings, leading instructional sessions for younger members in collaboration with peers and adult leaders. Represented Troop 435 at camporee and jamboree meetings.

## Projects

- 2025 – Present      **Variational Quantum Eigensolver (VQE) Benchmarking**  
Currently working on evaluating the viability of various VQE methods compared to classical optimization techniques on commercially available quantum hardware.
- 2024      **AI Image Classifier**  
Developed and trained a binary image classifier using ResNet-50 to differentiate AI generated images from human-made artwork. Achieved 82% accuracy through dataset normalization and augmentation techniques.
- 2024      **Skills Horizon Project**  
Developed a web scraping application to aggregate and analyze five years of historical data from SXSW conference events through Sydney Executive Plus, a subsidiary of the University of Sydney. Applied classification models and regression techniques to identify trends and provide data-driven insights for the strategic planning of the 2025 Skills Horizon project.
- 2023      **Optimized DJ Set**  
Designed an algorithm using the minimum-cost flow model to optimize song selection from a Spotify playlist for DJ sets, balancing energy, danceability, and key transitions. Implemented in Python with GAMS and Spotify API.

## Extracurricular Activities

- 2025 – Present      **Wisconsin Quantum Computing Club**  
Engaged in discussions and projects related to quantum computing and its applications. Participated in educational outreach events, including the Physics Fair.
- 2023 – Present      **The Vault - UW Madison**  
Executive member of premier business-fashion organization focused on networking and professional development in the fashion industry.
- 2024 – Present      **Hoofers Sailing Club**  
Participated in sailing activities and training sessions, developing teamwork and navigation skills. Participated in weekend regatta's held by local sailing organizations.
- 2024 – Present      **Hoofers Ski and Snowboard Club**  
Engaged in winter sports events and trips. Volunteered for collaborative 'teach a kid to snowboard' through Big Brothers Big Sisters of America.
- 2024      **University of Sydney Societies**  
Active participant in DJ Society, PULP Magazine, Boulderling Society, GOON Society, and Surf Society while studying abroad.