

# Dylan Wallace

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## Education

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**University of Wisconsin-Madison**, BS in Mathematics (Honors) Sept 2023 – June 2027

- GPA: 3.86/4.0
- **Coursework:** Linear Algebra, Analysis I, Algebra I-II, Data-Driven Stochastic Processes, Probability
- **Relevant Programs:** Math Directed Reading Program - Linear Representations of Finite Groups (2024 Spring), Ergodic Theory (2024 Fall)

## Experience

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**Engineering Intern**, X Corp. – San Francisco, CA June 2024 – Aug 2024

- Streamlined User and Tweet Search data pipelines
- Trained and deployed two-tower debiasing model for Tweet Search re-ranker to reduce effects of unseen tweets on model performance
- Technologies: Scala, Python, PyTorch, Hadoop, Pandas

**Chief Technology Officer and Backend Engineer**, gamut.ink (acquired) – San Francisco, CA July 2023 – Dec 2024

- Led development and deployment of gamut's AI streaming backend
- Engineered response caching and regex streaming system, reduced mean load time by 60%
- Implemented user-side text processing pipeline
- Technologies: Python, Typescript, Quart, Nginx, Docker, React, Zustand

**Full-Stack Developer Intern**, Easton Financial – Palo Alto, CA June 2021 – Nov 2021

- Engineered and deployed critical internal loan database system
- Implemented internal web and command line interface for loan system
- Technologies: Python, Flask, PostgreSQL, Docker

## Skills

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**Languages:** Python, Javascript, Rust, C, Scala, Prolog, Java, SQL, Japanese

**Technologies:** React, Flask, JQuery, FastAPI, PostgreSQL, Redis, Pandas, NumPy, PyTorch, Nginx, Git, Docker, Ncurses

## Awards and Achievements

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**Honorable Mention**, Mathematical Contest in Modeling 2023

**Honorable Mention**, MathWorks Math Modeling Challenge 2023

**National Champion**, International Mathematical Modeling Championship 2022