Astrid Greene

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Education

University of Michigan Ann Arbor, MI

B.S. in Computer Science, Minor in French

- GPA: 3.8/4.0, University Honors
- Coursework: Data Structures and Algorithms, Machine Learning, Computer Organization, Object Oriented Programming, Discrete Mathematics, Linear Algebra, Calculus I-II
- Activities: Girls in Electrical Engineering and Computer Science, Tech Plus Consulting

Experience

Tech Plus Consulting Jan 2026 – Present

Technical Analyst *Ann Arbor, MI*

- Designed technical requirements for an internal AI policy chatbot using retrieval-augmented generation (RAG), including document ingestion, embedding, vector search, and source attribution
- Evaluated data quality, access control, and update workflows to ensure accurate, auditable, and maintainable AI responses from sanctioned policy sources

Kode with Klossy June 2023 – Aug 2023

Junior Developer/Team Lead *New York, NY*

- Led a 4-person team to design and develop a website addressing workplace discrimination, acting as lead debugger across front-end and back-end to support teammates and improve system reliability
- Implemented a user story submission feature, collecting over 100 contributions and publishing select narratives to spotlight underrepresented experiences and foster community

Morgan State University June 2023 – Aug 2023

Research Assistant

- Co-authored paper "Debunking The Curse of Dimensionality in a K-Nearest Neighbors Classification Problem" with Dr. Eric Sakk, selected as Semi-Finalist in the Junior Science and Humanities Symposium
- Researched "Curse of Dimensionality" in k-Nearest Neighbors, running Python experiments to show that in uniform, hard-confidence data sets, increasing dimensionality can actually improve k-NN performance
- Designed k-NN experiments in Python on datasets of 1000+ points, varying k-values and dimensions (2D–15D) to test classification accuracy, with NumPy, Scikit-learn, and Matplotlib for data generation, training, and visualization

University of Michigan Math Learning Center Jan 2025 – Present

Proctor *Ann Arbor, MI*

- Monitored computer performance, reported bugs, verified student identities, and coordinated exam sign-in for 25–30 students per session to ensure exam security and comfort for all students

Projects

Order Book Simulator Oct 2025

- Built price–time-priority order-matching engine using priority queues, processing 1M+ orders and executing 760K+ trades in <10 seconds (74K+ orders/s) with O(log n) trade matching efficiency

Naive Bayes Text Classifier May 2025

- Implemented a multi-variate Bernoulli naive Bayes machine learning classifier that effectively reads and classifies posts by topic by determining which label has the highest log-probability score for each post
- Programmed with abstract data types in C++ to efficiently parse through files and detect individual word frequency per post

BST-Based Map Container June 2025

- Implemented a Binary Search Tree with the abilities to enforce sorting invariants, utilize in-order and pre-order traversal, and calculate tree characteristics with functors, templates, and recursion
- Built an ordered Map ADT based on the underlying BST in C++, enabling efficient associative key–value storage with O(log n) insertion and lookup performance

Volunteer

Notre Dame Student Art Exhibition Apr 2023 & Apr 2024

- Founded and directed an annual pop-up art exhibition featuring 30 student artists and drawing over 200 attendees each year, allowing artists to showcase their work and connect with their community
- Raised and donated $1,000+ in proceeds from ticket sales, merchandise, and sponsorships to Art Start and 350.org

Technical Skills

Languages: C/C++, Java, Python, JavaScript/TypeScript, HTML/CSS, SQL, R
Developer Tools: Git, Matplotlib, NumPy, Scikit-learn, Pandas, Linux