

# Tom Stevenson

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## EDUCATION

### University of Minnesota—Twin Cities

Minneapolis, Minnesota

- B.S. in Computer Science | GPA: 3.752 May 2026
- Activities: Delta Kappa Epsilon, Amazon Web Services Cloud Club, Competitive Programming Club, Minnesota Quants

## EXPERIENCE

### Software Engineering Co-op

Plymouth, Minnesota

*Philips*

*January 2025–Present*

- Deployed self-hosted GitHub runners and optimized build scripts to improve CI/CD processes, resulting in ~700 hours saved annually in build time.
- Extended C++ Test Automation Framework to accelerate regression cycles and cut manual testing effort by 40%.
- Designed and executed a statistical power analysis using ClearML, WSL, and Docker to quantify the data volume required for segmentation models to meet clinical acceptance criteria across multiple datasets.

### Senior Student Software Developer

Minneapolis, Minnesota

*University of Minnesota—College of Liberal Arts*

*May 2024–Present*

- Rebuilt a 36k-line PHP system into a React/Express/MySQL app, boosting performance 500% for 7,000+ users.
- Led a 3-member team through a five-month refactor, enhancing accessibility and backend efficiency.

### Undergraduate Research Assistant—Social Network Researcher

Minneapolis, Minnesota

*University of Minnesota —Prof. Jaideep Srivastava Research Group*

*May 2024–Nov 2024*

- Partnered with Prof. Srivastava's team to build an ML toolkit for misinformation mitigation (trust scoring, vulnerability analysis, forensics).
- Developed core ML modules for measuring trustworthiness and detecting spreaders in social networks.

### Software Engineering Intern

Minneapolis, Minnesota

*Lexus of Wayzata*

*September 2023–November 2023*

- Developed a full-stack web app using Python (Flask) and SQLite to manage dealership sales data, improving data integrity and reducing dropped records by 60%
- Collaborated with sales, marketing, and service teams to gather requirements and tailor features to real-world workflows.

## PROJECTS

### Spatial Transcriptomics Pipeline

Minneapolis, Minnesota

*University of Minnesota—Prof. Lin Zhang Research Group*

*August 2024–Present*

- Built modular pipeline for spatial transcriptomics data analysis in Python and C++, ensuring reproducibility and cross-technology support.
- Developed a responsive website with HTML, Bootstrap, and JavaScript to host tools and documentation for global research collaboration.

### Credit Card Fraud Detection with Machine Learning

Minneapolis, Minnesota

*Minnesota Quants*

*July 2024–September 2024*

- Built linear SVM, neural network, and logistic regression models in Google Colab, achieving 97–99% accuracy, informed by techniques from Stanford's CS 229 course.
- Created data pipelines and visualizations with Pandas, NumPy, Matplotlib, PyTorch, and Scikit-learn to streamline model validation.

## LEADERSHIP

### Amazon Web Services Cloud Club

Minneapolis, Minnesota

*President and former Marketing and Member Outreach Officer*

*May 2024–Present*

- Secured AWS partnership and guest speakers, growing membership by 50 people, and boosting student outcomes.
- Led workshops on compute, storage, serverless, and AI/ML services to provide a hands-on cloud experience.

### Delta Kappa Epsilon

Minneapolis, Minnesota

*Class President and Scholarship Chair*

*September 2023–Present*

- Increased Dean's List honorees by 40% through peer-study groups and academic workshops, securing the Lion's Trophy as DKE's highest honor for a chapter.
- Elected Class President (35–1 vote) and organized chapter meetings, coordinated philanthropy events, and helped unify members through shared academic and community goals.

## SKILLS & INTERESTS

**Languages & Web:** C++, Python, Java, JavaScript, OCaml, MySQL, HTML/CSS, React, Node.js, Express.js

**Data & ML:** Pandas, NumPy, PyTorch, TensorFlow, Scikit-learn, Matplotlib, Google Colab, ClearML

**Tools & Platforms:** Git, Docker, AWS (EC2, S3, Lambda, SageMaker, Bedrock), Linux, WSL, Windows, macOS

**Interests:** Chess, Strength Training, Baseball, Basketball, Poker, Running, French