

# Tom Stevenson

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## EDUCATION

### University of Minnesota—Twin Cities

Minneapolis, Minnesota

- B.S. in Computer Science | GPA: 3.75
- Activities: Delta Kappa Epsilon, Amazon Web Services Cloud Club, Competitive Programming Club, Social Coding, Minnesota Quants, Gopher Hacks

## EXPERIENCE

### Full-Stack Student Software Developer

Minneapolis, Minnesota

University of Minnesota—College of Liberal Arts

May 2024–Present

- Developed and implemented a user-friendly interface for the University of Minnesota Writing Center's appointment scheduling system using Figma, HTML, CSS, JavaScript, and PHP, improving user experience with enhanced accessibility features and streamlined navigation.
- Refactored the MySQL database for the writing center's appointment scheduling system, resulting in a ~35 percent reduction in query times by optimizing indexing, implementing table partitioning, and fine-tuning MySQL configurations.

### Undergraduate Research Assistant—Social Network Researcher

Minneapolis, Minnesota

University of Minnesota —Prof. Jaideep Srivastava Research Group

May 2024–Present

- Collaborated with Dr. Jaideep Srivastava and four PhD students on a machine learning-driven project to mitigate misinformation and disinformation on social networks.
- Assisted in the development of a comprehensive toolkit using machine learning algorithms ran on the Minnesota Super Computing Institute's supercomputers to address various social engineering issues, including trustworthiness measurement, vulnerability computation, behavioral forensics, and spreader detection.

### Software Engineering Intern

Minneapolis, Minnesota

Lexus of Wayzata

September 2023–November 2023

- Developed a web app for Lexus of Wayzata using Node.js, MongoDB, HTML, CSS, and JavaScript to store and manage sales data, enhancing data security and reducing dropped sales data by approximately 60 percent.
- Collaborated cross-functionally with sales, marketing, and service departments to gather requirements and ensure the web app's alignment with user needs, improving overall data handling efficiency.

### Co-Founder & CTO

Minnetonka, Minnesota

RIPL

April 2023–July 2023

- Co-founded technology education startup to bridge the gap between employers and high schools through innovative software solutions; developed the platform using the MERN stack (MongoDB, Express.js, React, Node.js) alongside HTML/CSS and JavaScript.
- Led the complete technical development of both the curriculum and the website, ensuring a seamless and user-friendly experience for all stakeholders involved.

## PROJECTS

### Spatial Transcriptomics Pipeline

Minneapolis, Minnesota

University of Minnesota—Prof. Lin Zhang Research Group

August 2024–Present

- Currently developing a modular software pipeline for spatial transcriptomics (ST) data analysis using Python and C++, designed to enhance reproducibility, accommodate diverse technologies, and promote collaboration in cutting-edge cellular biology research.
- Building a responsive, user-friendly website using HTML, CSS/Bootstrap, and JavaScript to host the Spatial Transcriptomics analysis pipeline, aimed at providing global researchers with accessible tools, comprehensive documentation, and fostering open scientific collaboration.

### Credit Card Fraud Detection with Machine Learning

Minneapolis, Minnesota

Minnesota Quants

July 2024–Present

- Designed and implemented multiple credit card fraud detection models using core algorithms such as linear SVM, neural networks, and logistic regression, achieving consistent accuracy rates more than 97 percent, with peak performance exceeding 99 percent.
- Utilized Google Colab in combination with Matplotlib, Pandas, NumPy, PyTorch, and Scikit-learn to conduct data analysis and preprocessing, develop and test models, and create comprehensive visualizations, leading to effective identification of fraudulent transactions.

## LEADERSHIP

### Amazon Web Services Cloud Club

Minneapolis, Minnesota

Marketing and Member Outreach Officer

May 2024–Present

- Collaborated with Amazon Web Services representatives to secure sponsorships, guest speakers, and resources, enhancing the club's offerings and providing valuable networking opportunities for members.
- Led marketing and outreach efforts, successfully increasing membership and engagement through targeted campaigns and events.

### Delta Kappa Epsilon

Minneapolis, Minnesota

Class President and Scholarship Chair

September 2023–Present

- Led all academic initiatives as Scholarship Chair for Delta Kappa Epsilon, resulting in a 40 percent increase in the number of Dean's List students within the organization.
- Elected as president of class by a 35-1 vote, leading philanthropy initiatives, fostering academic excellence, and enhancing overall member engagement.

### Minnetonka High School Student Government

Minnetonka, Minnesota

First Mates Leader

September 2022–May 2023

- Co-led a group of 20 incoming students as a First Mates leader at Minnetonka High School, providing mentorship and guidance to help them successfully transition into high school.
- Collaborated with a fellow leader to facilitate group activities and support the students throughout the year, fostering a welcoming and inclusive environment that promoted academic and social success.

## RELATIVE COURSEWORK

**Algorithms and Data Structures:** Focus on advanced algorithms, data structures, and their application in optimizing computational performance.

**Computational Linear Algebra:** Centered on matrix operations, vector spaces, and applications in machine learning.

**Machine Architecture:** Centered on understanding computer systems from the ground up, including hardware, memory hierarchy, and low-level programming.

**Discrete Mathematics:** Focusing on logic, set theory, combinatorics, graph theory, and their applications in computer science.

## SKILLS

**Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, MySQL

**Frameworks/Technologies:** React, Linux, GitHub, Git, Docker, Node.js, Pytorch, Numpy, Pandas, Scikit Learn, Matplotlib, Tableau, Windows 11, Figma

**Skills:** Public Speaking, Collaboration, Team player, Mathematical Thinking, Web Design, Problem-Solving, Customer Service, Time Management, Analytical Thinking, Cooperation