

Victory (Victor) Ma

Bachelor of Arts: Computer Science, History
Concentration: Statistics and Data Science
Education: St. Olaf College
May 2026 | GPA: 3.82

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Location: Rochester, Minnesota
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Portfolio: <https://victoryma8.github.io>

Skills Summary: C++, Python, R, JavaScript, Django, Tailwind, Docker, AWS, Terraform, React, React Native, HTMX, HTML, CSS, and Git

Relevant Courses: Machine Learning, Analysis of Algorithms, Algorithms for Decision Making, Software Design, Hardware Design, Data Structures in C++, Ethical Issues in Software Design, Linear Algebra, Discrete Mathematical Reasoning, Statistics I, Statistics II, Data Science I

Team Projects

- **BloomMates Mobile App:** Developing an innovative iOS/Android application using React Native and Firebase that aims to combat loneliness through interactive flower gifting. Incorporates mental wellness activities that reward users, allowing them to send custom virtual bouquets to loved ones while simultaneously earning discounts at local florists; recipient of the People's Choice Award at Ole Cup 2025
- **Roster Management System:** Led the development of a C++ roster management system featuring advanced algorithms for match simulation and player trading and object-oriented design patterns, with a console interface for handling complex sports team operations
- **Analytical Report of Computer Attributes:** A statistical analysis that aimed to understand the specifications of computers being sold during the early 1990s. A multiple linear regression model was obtained; testing and results were conveyed through R and R Markdown

Personal Projects

- **Curious Vexillologist:** Created a vexillology learning application with a database that consists of 200+ countries, each with its associated metadata, serving as an interactive educational quizzing tool. Initially built with Node, Express, and EJS, recently reengineered with Django, HTMX, Tailwind, DaisyUI, and PostgreSQL
- **Ekklesia:** Developed a full-stack task and time management website using Django, HTMX, Tailwind, DaisyUI, and PostgreSQL to give users a seamless interface to keep their tasks and pomodoro-like study timers in one place, accessible through the internet
- **Exchange Rate Platform:** Developed a currency conversion platform using Node and Express, integrating APIs through Axios to provide users with exchange rates updated daily across major global currencies, enabling accurate international financial calculations

Related Prior Experience

- **App Developer | Project Friendship** **Sep. 2025 - present**
 - Supporting the development of an internal mobile application, utilizing AWS technologies such as Lambda, API Gateway, and RDS
- **Teaching Assistant | St. Olaf College** **Sep. 2025 - present**
 - Working closely with professors to ensure the academic success of students in a senior-level algorithms and data structures course
- **Software Developer Intern | GCS Geospatial** **May 2025 - Aug. 2025**
 - Directly supported the development of an internal web application used for geospatial accuracy analysis by leveraging frameworks and tools such as Django, HTMX, Docker, AWS, and Terraform. Conducted coordinate surveys for future data analysis as a team
- **Teaching Assistant | St. Olaf College** **Feb. 2025 - May 2025**
 - Collaborating with faculty and staff to aid students in understanding fundamental concepts pertaining to the real-world impact of software, data, artificial intelligence, computer crime, and intellectual property
- **Statistics Grader | St. Olaf College** **Sep. 2024 - Dec. 2024**
 - Evaluated complex statistical analyses and programming assignments for an undergraduate Statistics course, providing detailed technical feedback to improve students' understanding of statistical methods and their implementation

Certifications

- **AlgoExpert: Coding Interview Training** **Jan. 2025**
 - Completed via St. Olaf College in partnership with AlgoExpert
 - Built a stronger foundation for understanding data structures and algorithms, and completed 100 coding interview questions
- **AT&T Technology Academy** **June 2024**
 - Completed a week-long online program aimed at educating students on technology careers through lessons and discussions with experts in the field. Lectures explained modern utilizations of APIs, Scrum Teams, HTTP, 5G, Cloud Computing, and Agile Methodology

Honors & Awards

- St. Olaf Dean's List (x5)
- St. Olaf Honors Day (x3)

Other Experience

Algorithms Club | Director of Recruitment
Asian Student Union | President

Languages | English (fluent), French (intermediate), Levantine Arabic (beginner)

Center for Interdisciplinary Research | Fellow