Victory Ma

Bachelor of Arts: Computer Science, History
Concentration: Statistics and Data Science
Education: St. Olaf College
May 2026 | GPA: 3.83

Portfolio: victory-ma.com
Location: Rochester, Minnesota, USA
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Skills Summary: C++, Python, R, JavaScript, Django, Tailwind, Docker, AWS, Terraform, React, React Native, HTMX, HTML, CSS, and Git

Relevant Courses: Machine Learning (Python), Algorithms for Decision Making (Statistical Learning in R), Quantum Computing, Analysis of Algorithms, Software Design, Hardware Design, Data Structures in C++, Linear Algebra, Discrete Math, Data Science I, Statistics I, Statistics II

Projects:

➢ **BloomMates Mobile App** | **People's Choice Award at Ole Cup 2025 | React Native / Firebase:** Developing an innovative iOS/Android application that serves to improve mental health 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 to purchase flowers at local florists

➢ **Curious Vexillologist** | **Django / HTMX / Tailwind:** Engineered and deployed 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, but recently optimized performance and user experience with Django and HTMX

➢ **Machine Learning Project** | **Predicting Revenue via Website Activity | Python:** Developed a predictive model using Scikit-Learn that aimed to use machine learning methods to predict whether an online customer will generate revenue based on features related to their time on the website, based on a dataset from UC Irvine's Machine Learning Repository

➢ **Statistical Learning Project** | **Predicting Pokémon Types | R:** A project using the Tidymodels R package that used machine learning methods to predict a Pokémon's type based on various factors related to its attributes and other in-game characteristics

➢ **Roster Management System** | **C++**: Led the development of a 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 Attribute** | **R / RMarkdown:** A statistical analysis that aimed to understand the specifications of computers being sold during the early 1990s. A multiple linear regression model was obtained

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 - Dec. 2025**
  ○ Worked closely with professors to ensure full comprehension of algorithms of 30+ students in a senior-level computer science 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)

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

Other Experience

Algorithms Club | Director of Recruitment
Asian Student Union | President

Center for Interdisciplinary Research | Fellow