

# Fay Nguyen

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## EDUCATION

### St.Olaf College

Northfield, MN

*Bachelor of Arts in Computer Science and Maths, Concentration in Statistics and Data Science* Expected May 2026

- GPA: 4.0/4.0
- Relevant Coursework: Data Structures, Software Design, Analysis of Algorithms, Algorithm For Decision Making, Linear Algebra, Discrete Maths, Abstract Algebra, Probability Theory, Modern Computational Maths, Statistics for Scientists, Data Visualization, Data Science

## TECHNICAL SKILLS

**Languages:** C/C++, C#, Python, R, Kotlin, Javascript, HTML/CSS, Bash, SQL, Ruby, XML

**Frameworks & Software:** Android Studio, Visual Studio Code, Visual Studio, Git, Tableau, .NET, Microsoft SQL Server, Quarto, Rmarkdown, tidyverse, XGBoost, RStudio, SSH, React, RestfulAPI, Postman

## EXPERIENCE

### Undergraduate Researcher

May 2023 – Present

*Collaborative Undergraduate Research and Inquiry, St.Olaf College*

Northfield, MN

- Developed the **Resource-Conscious Algorithm** to select the goal exhibiting resource costs closest to those achieved in the most optimized results attained through the baseline **Greedy Algorithm** in 83% of test instances with approximately 60% of the available agents got assigned
- Implemented the **Multi-Agent Development API** ([GitHub](#))

### Computer Science Lead Teaching Assistant

Feb. 2023 – Present

*MSCS Department, St.Olaf College*

Northfield, MN

- Provided evaluation and feedback for students' assignments and exams as well as facilitating 2 help sessions per week to provide support for 60+ students in the Data Structures and Introduction to C++ course
- Conducted training sessions at the beginning of each semester for the CS TAs, providing comprehensive guidance on grading policies, effective communication strategies with students, and implementing best practices in Computer Science community

### Technology Consulting Assistant

Sep. 2022 – Present

*IT Department, St.Olaf College*

Northfield, MN

- Provided direct and virtual support for about 4000 students, professors, and staff on St.Olaf College campus to address various technical issues, ranging from printing to classroom functionality
- Utilized the TeamDynamix platform to manage the workflow of solving technical problems and communicated with online clients through Tawk.to

## PROJECTS

### Morning Mosaic | Kotlin, Android Studio, XML, RestAPIs | [GitHub](#)

Nov 2023

- Retrieved information from Mediastack News Rest API and AstrologyAPI in the JSON format
- Beautified the user interface with the RecyclerView and navigation bar as well as customized the themes for light/dark mode

### STUDEE | C++, React Native | [GitHub](#)

October 2023 – December 2023

- Built a networking platform for students from around the world to find their tutors, students, or study buddies
- Constructed in C++ and utilized React Native for the GUI version

### Restaurant Management System | C#, .NET, MS SQL Server | [GitHub](#)

July 2023 – August 2023

- Utilized C# and Windows Forms to construct a GUI system that streamlines the restaurant staff's booking processes, customer records management, and staff administration and requires a login procedure for access
- Stored information of customers, staff, and meal booking in the Microsoft SQL Server with real-time update

### Makeover Monday Challenge | Tableau, R | [Tableau Public Link](#)

April 2023 – May 2023

- Utilized R to wrangle the weekly social data sets with 10,000+ data values
- Visualized the data with Tableau based on the grammar of graphics and EPT principles, using +20 different types of charts (circular, lollipop, racing bar chart,...) to create a comprehensive dashboard