

# 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, Computational Maths, Statistics for Scientists, Data Visualization, Data Science

## TECHNICAL SKILLS

**Languages:** C, C++, C#, Python, R, Kotlin, Javascript, HTML, CSS, Java, Bash

**Frameworks & Software:** Rmarkdown, VirtualBox, Android Studio, VS Code, Visual Studio, Git, Tableau, .NET, MS SQL Server, Splunk, WireShark

**Certificate:** CodePath Intermediate Cybersecurity, CodePath Intermediate Android Development

## 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
- Integrated the **Multi-Agent Development API (GitHub)** into the existing cognitive architecture **MIDCA**, originally designed for single autonomous agent scenarios, enabling **MIDCA** to operate adeptly in the multi-agent environments

### CS Teaching Assistant

Feb. 2023 – Present

*MSCS Department, St.Olaf College*

Northfield, MN

- Assisted 3 Professors in the introductory CS courses and the Data Structures course with students' assignments and exams evaluation and feedback
- Facilitated 2 help sessions per week to provide support for 90+ students to complete their assignments and improve programming skills in Python and C++

### 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, RestfulAPIs | GitHub

Nov 2023

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

### Restaurant Management System | C#, .NET, MS SQL Server | GitHub

July 2023 – Present

- 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