

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, Bash, SQL, Ruby

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

Certificate: CodePath Intermediate Cybersecurity, CodePath Intermediate Android Development, CodePath Intro To Web Development, Codepath Advanced Technical Interview Prep, Hackerrank Intermediate SQL

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

- Assisted in the Data Structures course, providing evaluation and feedback for students' assignments and exams
- Facilitated 2 help sessions per week to provide support for 60+ students to complete their assignments and improve programming skills in Python and C++
- 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, 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