

Khanh Tra Nguyen Tran

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EDUCATION

St.Olaf College

Northfield, MN

Bachelor of Arts in Computer Science and Math, Concentration in Statistics and Data Science

Expected May 2026

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

SKILLS

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

Frameworks & Software: Android Studio, Visual Studio Code, Visual Studio, Git, Tableau, .NET, Microsoft SQL Server, Quarto, Rmarkdown, RStudio, React, RestfulAPI, Postman, MS Office, SQLite, tidymodel, scikit-learn, pandas, numpy, JSON, shinyapp

EXPERIENCE

Undergraduate Researcher

May 2023 – Present

Collaborative Undergraduate Research and Inquiry, St.Olaf College

Northfield, MN

- Developed the **Resource-Conscious Algorithm** in *Python* 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
- Publication: *Nguyen Tran, K. T., Young, J., & Kondrakunta, S. (2024). Initial Goal Allocation for Multi-agent Systems. The International FLAIRS Conference Proceedings, 37(1).*

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 support 60+ students and answer questions about data structures, C++, Version Control, and algorithms
- Conducted training sessions at the beginning of each semester for 15 Computer Science Teaching Assistants, providing comprehensive guidance on grading policies, and effective communication strategies with students

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 the St.Olaf College campus to resolve various technical issues
- Utilized the TeamDynamix platform to manage the workflow of solving +40 types of technical problems, ranging from printing, VPN connection, and account authorization to classroom functionality and device reservation

PROJECTS

KITCHEN STORY | *Kotlin, Android Studio, XML, SQLite*

April 2024

- Extracted data from Spoonacular API in *JSON* format, seamlessly integrating information of recipes onto the RecyclerView, resulting in a dynamic and engaging user interface experience that shows recipes based on the inputted ingredients
- Developed database storing data for offline usage with *SQLite* and *Room*
- Managed the project using *GitHub*'s project board to organize issues, pull requests, and notes effectively for team collaboration

STUDEE | *C++, React Native*

Oct – Dec 2023

- Established an innovative online student hub, facilitating connections among students worldwide to find tutors or study partners as well as maintaining a forum for Q&A
- Integrated database to store information about users, connection between tutors and students, and forum questions and employed *React Native* for the GUI version besides the main syntax-based version

RESTAURANT MANAGEMENT SYSTEM | *C#, .NET, MS SQL Server*

July – 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