

# RAFAEL GAYAHAN

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## EDUCATION

**University of Texas at Dallas**  
B.S. Computer Science

Richardson, TX  
June 2023

## SKILLS

Languages: C++, Java, Python, JavaScript, SQL  
Technologies: React Native, Node.js, MySQL, Git, VS Code, Android Studio, Windows, Linux  
Libraries: PyTorch, TensorFlow, Sci-kit learn, pandas, NumPy, Matplotlib  
Soft Skills: Communication, Collaboration, Leadership, Problem solving, Adaptability

## WORK EXPERIENCE

**Tapioca Express**  
*Shift Manager*

Frisco, TX  
August 2018 - May 2019

- Provided quality customer service and worked with a small team in a fast-paced environment
- Interviewed potential employees
- Managed other employees while on shift
- Recorded monthly inventory of stock

## PROJECT EXPERIENCE

**MechaSense Mobile App Detailed View** *JavaScript, React Native, Node.js*  
*Team Lead*

- Led a team of 4 students to develop a mobile app for an HVAC company
- Served as the point-of-contact for my team and the client
- Prioritized client service by implementing client requests into the final product

**Image Recognition** *Python, PyTorch*  
*Solo project*

<https://github.com/Rafael-Gayahan/MachineLearningProject>

- Utilized convolutional neural network architectures to create my own network architecture
- Studied past neural network architectures and how they worked with image recognition
- Final version of the network architecture created a 30% increase in image recognition accuracy

**Ultimate Tic-Tac-Toe** *Java, IntelliJ*  
*Solo Project*

<https://github.com/Rafael-Gayahan/Ultimate-TicTacToe>

- Utilized OOP concepts to create a 9x9 board of individual Tic-Tac-Toe games
- Program allowed the user to play vs another player or an AI created to make random moves vs the player

**Hospital Database** *Java, MySQL, MySQL Workbench*  
*Developer, Planner*

<https://github.com/VirtueA/Hospital-Database>

- Created UML diagrams and entity relationship diagrams for a hospital database
- Used the diagrams to create a working SQL database using MySQL

## RELEVANT COURSEWORK

- |                                    |                           |                                     |
|------------------------------------|---------------------------|-------------------------------------|
| • Calculus I                       | • Database Systems        | • Digital Logic and Computer Design |
| • Calculus II                      | • Automata Theory         | • Software Engineering              |
| • Discrete Mathematics             | • Artificial Intelligence | • Programming Language Paradigms    |
| • Linear Algebra                   | • Machine Learning        | • Operating Systems Concepts        |
| • Advanced Algorithms and Analysis | • Computer Graphics       |                                     |