

# Khoi Tran

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## EDUCATION

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B.S in Computer Engineering

Aug 2016 – May 2020

M.S in Computer Science

Aug 2020 – May 2022

The University of Texas at Dallas, Richardson, Texas

## SKILLS

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**Languages:** JavaScript, C#, Python, Java, C++, C, Assembly, HTML5, CSS3.

**Frameworks:** Vue.js, React, Redux, GraphQL, Express, Angular, Ionic, Cordova, Vuetify, Bootstrap.

**Others:** Firebase, Unity, MongoDB, Node.js, Linux, Android, ROS, Algolia, MSP432.

## WORK EXPERIENCE

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### UTD School of Arts, Technology, and Emerging Communication

*Research Assistant / Unity Developer*

Sept 2019 – Now

<https://stepp.utdallas.edu/publication>

- STEPP: a WebGL Unity game in C# that's used as a teaching tool for high school's Physics courses.
- Implement and debug features for 16 different levels of the game.
- Develop algorithms to animate game objects based on Physics kinematic equations.
- Assist in building a data handling system that serves as an in-game database that validates, stores and performs Physics calculations on users' inputs.

## PERSONAL PROJECTS

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### Vertas News (3-person project)

June 2019 – Aug 2019

<https://vertasnews.com/>

- A web app to rate news articles and aggregate ratings for news outlets and journalists.
- Developed the UI/UX with Vue.js and Vuetify.
- Configured Firebase as the backend and database service, using News API to gather news and Algolia for data search.

### SwingnRun Unity Game (1-person project)

Aug 2019

<https://khoitrان98.github.io/SwingnRun-WebDemo/>

- Developed an endless runner WebGL game with C# and Unity.
- Built a neural network that can study player gameplay through backpropagation.
- Deployed a game server using MongoDB, Node.js, and Express to store the score leaderboard and the neural network.

### Bombberman Online (4-person project)

Aug 2020 - Now

- Implemented characters' movements and actions for a web game remake of Bombberman using Phaser.io and geckos.io to ensure real-time multiplayer communication over Node.js and Express.

### Students Attendance App (4-person project)

Nov 2019

<https://github.com/AreYouHere-io/AreYouHere-App>

- Developed the UI/UX for a hackathon cross-platform mobile app with Ionic, Angular, and Cordova.

## HONORS & AWARDS

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- Top 8 – 2020 International IEEE Software Testing Contest – College Group.