

# David Tran

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## EDUCATION

**Florida Institute of Technology** - Melbourne, Florida

*Expected May 2025*

**College of Engineering and Science** - B.S. in Computer Science

**GPA: 3.36/4.00**

*Honors:* Dean's List (Fall 2021, Spring 2023, Spring 2024)

*Relevant Coursework:* Data Structures & Algorithms, Intro to Software Engineering, Operating Systems, Networks, Web Applications, Software Design Methods, Assembly, Artificial Intelligence, Database Systems, Analysis of Algorithms.

## WORK EXPERIENCE

### Game Development Intern

Studio Koleman, Gainesville, FL

*July 2023 - Present*

- Contracted to resolve long standing issues and bugs in assigned game project
- Used Trello and Git to keep track of project issues and features
- Implemented specific features in the Unity project to improve functionality
- Developed features to improve performance and allow implementation of future functionality

### Software Simulation Intern, Florida Tech

High Energy Physics Research Lab, Melbourne, FL

*Jan 2024 - Mar 2024*

- Assisted with electron ion collider simulation using C and Python in bash EIC shell environment
- Helped team further refine data collection and accuracy measurement in particle collision detection simulator
- Improved accuracy of particle collision detection, furthered analysis of data collected
- Increased efficiency of interpretation of the particle collision simulation results

## PROJECTS:

KitchenSync | Melbourne, FL

*Aug 2024 - Present*

- Application that allows users to manage kitchen inventory, schedule meal plans, find recipes, and produces a shopping list based on provided meal plans.
- Collaborated with two other FIT students, used Java, JavaFX, and Python for functionality

SmartWord | Melbourne, FL

*Oct 2022 - Dec 2022*

- Implemented a program providing word guesses to users. Optimized recursive algorithm used to search potential guesses in trie data structure.
- Collaborated with two other FIT students, used Java as the main programming language.

Recipe Search Engine | Melbourne, FL

*Mar 2024 - Apr 2024*

- Developed a full stack web app to store recipes in a database from json file, user could search recipes and mark favorites.
- Collaborated with four other FIT students, used AWS/EC2 for hosting website, app used Node.js, React, and MongoDB

Dancing Links Sudoku | Melbourne, FL

*Dec 2024 - Present*

- Python program developed to solve Sudoku puzzles using the Dancing Links algorithm
- Currently solves 4 by 4 size puzzles up to 25 by 25 size puzzles - able to handle cases where there are few or many clues
- Project developed as the final for my Analysis of Algorithms class

Text Adventure | Melbourne, FL

*Sep 2021 - Nov 2021*

- Text-adventure game played using keystrokes. Developed in Python using the PyCharm IDE
- Demo allows user to walk around room, interact with environment and affect objects within it

## SKILLS

**Languages:** Python, Go, Julia, C, C#, JavaScript, HTML, CSS, Node, React, ASM, Java, SQL

**Software:** Microsoft Office (Word, Powerpoint, Excel), Linux OS, Amazon EC2, Unity, IntelliJ, PyCharm, Eclipse, Docker, Singularity, FileZilla, Git, PostgreSQL, MySQL, Powershell

## CO-CURRICULAR ACTIVITIES:

- Eagle Scout, Scouts of America
- Florida Tech Rescue Squad