David Tran

LinkedIn | GitHub | Personal Website
Melbourne FL, 32904 | raddivant@gmail.com | (321)-614-0070

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, Intro to Machine Learning, Cyber Forensics

WORK EXPERIENCE

Developer
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 - Jan 2025*
- 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

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