

THOMAS JOHNSON

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EDUCATION

Florida Institute of Technology 3.54 / 4.0 GPA

August 2020 - May 2024

B.S in Software Engineering

Melbourne, FL

Recent dean's list college graduate looking for growth opportunities. I am a motivated learner, and self starter that has acquired plenty of academic experience in software engineering and computer science principles. I have also gained collaborative experience and communication skills as both a leader, and contributor.

WORK EXPERIENCE

Evans Library

August 2021 - May 2024

iDesk Associate

Melbourne, FL

- Worked in a fast-paced environment, providing services and assistance to patrons, including tech lending, printing support, and navigation help.
- Assisted in referring patrons to applicable librarians, and where to find resources in library databases.

Weekley Schulte Valdes LLC

May 2021 - August 2021

File Clerk

Tampa, FL

- Managed internal databases, and placement of files, and invoices.
- Worked with Microsoft 365 products such as, word, PowerPoint, excel, and SharePoint.

PROJECTS

Vehicle Identification

August 2023 - April 2024

Contributor

- Aided in model creation, and training of convolational neural networks utilizing MiniVGG Net architecture to identify vehicle attributes.
- Developed web application to display database to users visually allowing for interactive CRUD operations, and queries checking.
- Developed software documentation, milestone evaluations, and testing plans.

Mini Shell

September 2024 - Present

Contributor

- Developed a custom shell in C, supporting core shell commands, history, environment variable management, and external command execution using POSIX system calls.
- Implemented quality-of-life features like command logging and tab completion with the GNU Readline library.
- Enhanced functionality with advanced I/O operations, including piping and input/output redirection using file descriptors.

Custom Memory Allocator

September 2024 - September 2024

Contributor

- Implemented a memory management system with a heap via memory mapping along with functions for allocating, reallocating existing memory, and freeing used memory. Included error handling for allocation failures, ensuring robustness.
- Optimized memory usage with size alignment, block splitting, and coalescing techniques.
- Created custom memory management utilities to mirror 'memset' and 'memcpy' from the standard library.

SKILLS

Languages

Python, Java, C, C++, Julia, Go, ADA, Haskell, x86 Assembly, Rust, Javascript

Tools/Frameworks/Other

Git, Github, Linux, Machine Learning, TensorFlow, SciKitLearn, MySQL
Web Applications: MongoDB, Express, React, Node, HTML / CSS
Software Testing - Black Box / White Box, Unit Testing
Integration Testing, Requirements Gathering / Analysis, UML