

# Dhruv Sharma

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## Education

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### University of Central Florida

Bachelor of Science in Information Technology

January 2024 – Current

### Valencia College

Associate in Arts in Computer Science

December 2023

## Skills

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**Programming Languages:** C, Java, Python, JavaScript, HTML, CSS

**Software Tools & Libraries:** Git/GitHub, VS Code, Windows, Linux, Pandas, NumPy, Matplotlib, Torch, Transformers, Tensorflow, ReportLab

## Projects

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### AI Summary Writer –

December 2024

- Extracts audio from any files using FFmpeg and processes the audio through several stages.
- Utilizes the Faster Whisper model from Hugging Face to transcribe audio into text, leveraging pre-trained models for accurate results.
- Implements a summarization feature using a transformer model to condense the transcribed text, capturing key points.
- Formats the summarized text into a PDF document, ensuring improved readability and usability for various documentation needs.

### C Compiler –

July 2024

- Designed and implemented a compiler for the SimpleC programming language in C, consisting of three incremental stages.
- Created robust type-checking features, implemented static scoping, and established symbol table management for the Abstract Syntax Tree (AST) used in SimpleC applications.
- Enhanced the compiler's functionality to include support for function definitions, variable declarations, arithmetic operations, and code generation for integer operations and pointers, specifically handling 64-bit integers and pointers.
- Upgraded the compiler to support various control-flow structures, boolean logic, unary reference and dereference operations, and relational operators tailored for pointer variables, including support for one level of pointer indirection.

## Extracurricular Activities

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### Knight Hacks at UCF – Member

August 2024 – Present

Participated in the Knight Hacks Hackathon 7. Our project is called SpoilerAlert!

### First Tech Challenge (FTC) Robotics / Mentor

January 2021 – January 2023

Orlando Science School, Orlando, FL

- Mentored students in STEM fields through the FIRST Tech Challenge (FTC) robotics program.
- Fostered teamwork, problem-solving, and critical thinking skills in a project-based learning environment.
- Provided guidance on robot design, construction, and programming.