

# CORY AVRUTIS

Tallahassee, Florida

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## EDUCATION

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**Florida State University** **08/23 – Present**  
*Master of Science in Computer Science - 4.0* *Tallahassee, USA*

**Florida State University** **Graduated Spring 2023**  
*Bachelor of Science in Computer Science - Magna Cum Laude* *Tallahassee, USA*

## COURSEWORK / SKILLS

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- Data Structures & Algorithms
- Operating Systems
- Assembly Code Optimizations
- Compilation Processes
- Computer Architecture
- OOP Concepts

## PROJECTS

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**Compiler** [↗](#) | **12 2022**

- Small Imperative Programming Language
- Lexical Analysis w/ Flex
- Semantic Analysis / Type Checking w/ Bison
- Abstract Syntax Tree / Control Flow Graph / Intermediate Representation Generations
- x86 Code Generation

**Generic Unix Shell** | [C](#) **01 2022**

- Utilizing \$PATH variable for command execution
- Command Redirection and Piping
- Background Processing of Commands

**Memory Hierarchy Simulator** | [C](#) **02 2022**

- Simulating a VIPT Cache
- Virtual to Physical Address Translation
- Simulates Instruction Cache, Data Cache, and Page Table
- Translation Lookaside Buffer Simulation for Instructions and Data

**Personal Website** [↗](#) | [GoDaddy](#) / [Linux CPANEL](#) Hosting **08 2022**

- Comprehension of HTML and CSS components
- CPANEL Web Hosting Fundamentals
- Built from scratch with HTML5 and CSS

## EXPERIENCE

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**Florida State University** [↗](#) **06 2022 – Present**  
*Research Assistant* *Tallahassee, Florida*

- \* Implement and test new assembly level transformations and techniques for varying ISA's.  
Guided by Dr. David Whalley, funded by National Science Foundation.

## TECHNICAL SKILLS

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**Languages:** C, C++, Python, Assembly (MIPS, RISC-V, x86), Java, HTML5, CSS, R, C#  
**Developer Tools:** VS Code, Vi, Flex, Bison, IntelliJ Idea  
**Technologies/Frameworks:** Linux/Unix Environment, CVS, Git, Mongo

## EXTRACURRICULAR

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**Association for Computing Machinery** [↗](#) **09 2021 – Current**  
*Member* *Florida State University*

- \* Attend skills workshops
- \* Various employer info sessions (e.g, L3Harris)
- \* Semester ACM Programming Competition