

# Zachary Skalski-Fouts

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## Education

### Florida State University

B.S. Computer Science. GPA 3.99.

Relevant Coursework: Data Structures, Algorithms and Generic Programming I/II, Operating Systems, Software Engineering, Computer Networks, Computer Organization, Unix Tools, Advanced Java Programming

Tallahassee, FL

May 2028

### South Broward High School

GPA 3.98. SAT: M: 750 V: 690. AP Scholar with Distinction.

Volunteer Swim Coach/Lifeguard

Hollywood, FL

May 2024

## Experience

### Ben and Jerry's

#### Ice Cream Scooper

Hollywood, FL

December 2021 – June 2024

- Handled over 200 daily transactions in a high-volume environment, maintaining speed and accuracy.
- Resolved customer conflicts by applying strong interpersonal and problem-solving skills.
- Contributed to a sales campaign, improving revenue through upselling strategies.
- Recruited and trained staff with a focus on long-term retention and team development.

Other Experience: Publix Deli Clerk (June 2024 – September 2024), Jeff Ellis Lifeguard (August 2021 – March 2022), High Sierra Pools Lifeguard (May 2021 – August 2021)

## Projects

### MIPS 5-Stage Pipeline

- Implemented a cycle-accurate simulator of a 5-stage MIPS pipeline in C with instruction memory, register files, and data memory.
- Supported arithmetic, logical, memory, and control instructions with hazard mitigation techniques such as stalling and forwarding.
- Designed custom tests to valid instruction execution and pipeline behavior, reinforcing computer architecture concepts.

### Linux Shell

- Collaborated with peers to design and implement a Linux shell supporting I/O redirection, piping, background processing, and a number of built-in functions using Rust.
- Applied OS-level concepts such as process control, parent-child relationships, and inter-process communication.
- Led team coordination through organized division of labor, structured use of Git and GitHub, and consistent progress tracking via development logs.

## Leadership

### The National Honor Society

#### President

Hollywood, FL

August 2022 – May 2024

- Led monthly meetings for 40+ members, coordinating agendas and initiatives.
- Oversaw executive board operations, delegating responsibilities and fostering collaboration among cabinet members to improve efficiency and teamwork.
- Organized a holiday gift drive raising over \$400 for Joe DiMaggio Children's Hospital and directed volunteer projects totaling 400+ service hours.

## Skills & Interests

**Programming Languages:** C++, C, MIPS Assembly, Java, Rust

**Technologies & Tools:** Git, GitHub, Linux.

**Interests:** Hiking, Baking, Furniture Repair/Restoration