

# Myron Truesdale

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## EDUCATION

### Bachelor of Science (B.S.) - Computer Science

University of Maryland, College Park

Aug 2020 - Dec 2023 (Expected)

College Park, MD

**Relevant Courses:** Advanced Data Structures, Compilers, Linear Algebra, Computer Systems, Algorithms, Computer Vision, Javascript, Introduction to Data Science, Essential Data Science Skills & Techniques

## SKILLS

**Frameworks:** Docker, Node.js, React

**Languages:** Java, Javascript, C, C++, Python, Ruby, Matlab, R, MIPS/x86 Assembly, Rust, Racket, OCaml, SQL, HTML, CSS

**Tools:** Arch/Ubuntu/Redhat Linux, Windows 10, MacOS, GDB, Junit, Apache, MongoDB, MySQL, GitHub, GitLab

## PROJECTS

### Racket Compiler

May 2022

- Developed a **parser**, **interpreter**, and **compiler** for the Racket programming language using Racket and x86 Assembly
- Implemented **type-handling** mechanisms for better type safety.
- Enabled the compiler to process and execute **user-defined functions**.
- Optimized for **tail call recursion** to improve performance.
- Integrated **variable management** to allow for **dynamic programming**.
- Supported **lambda functions** to facilitate functional **programming paradigms**.
- Verified program correctness by utilizing the **Racket REPL environment** to compare results between local test cases and established Racket outputs.

### Linux Shell

November 2021

- Created a functional Linux Shell using the C programming language
- Integrated **input/output redirection features** to enhance shell usability and data handling.
- Added **pipe functionality** to allow for chaining of commands, mimicking native Linux shell capabilities.
- Implemented support for **subshells**, enabling complex, nested shell operations.
- Built-in conjunction features, such as 'and' and 'or', for **conditional command execution** within the shell environment.

### File Manager

June 2023

- Engineered a file manager application, drawing inspiration from **Windows File Manager**, and implemented it using a **splay tree data structure** for optimized search functionality.
- Leveraged **full-stack development skills** in Python to build both the back-end splay tree logic and front-end GUI components.
- Incorporated the splay tree data structure to significantly improve **search and retrieval performance** within the application.

## EXPERIENCE

### Computer Science Teaching Assistant

Sep 2022 - May 2023

University of Maryland, College Park

College Park, MD

- Facilitated office hours** to provide academic support for "Introduction to Compilers" (**200 students**) and "Introduction to Computer Systems" (**890 students**).
- Graded assignments**, ensuring accurate and fair assessment.
- Resolved student queries**, enhancing understanding and improving course engagement.
- Collaborated with the lead professor on exam content and evaluation criteria.

### Swim Club Head Manager

Jun 2018 - September 2023

DRD Pool Management

Hunt Valley, MD

- Managed swim club facility, overseeing a team of **32 staff members** to ensure efficient operations
- Represented DRD Company in **communication with the pool board and other clients**, addressing concerns and maintaining positive relationships
- Served as the primary point of contact for customer service matters, resolving issues promptly to enhance patron satisfaction
- Demonstrated expertise in pool-related issues and facility maintenance, ensuring the smooth operation of pool equipment and amenities

## HONORS & AWARDS

### Eagle Scout

Boy Scouts of America

2020

### The President's Gold Volunteer Service Award

AmeriCorps, United States

2016