

Lee Thomas Forberg

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[LinkedIn Profile](#)

EDUCATION

University of Maryland - College Park, MD

Expected May 2025

Bachelor of Science, Computer Science, GPA: 3.46

- **Relevant Coursework:** Object-Oriented Programming I and II, Computer Systems, Discrete Structures, Algorithms, Organization of Programming Languages, Introduction to Data Science - Fall 2023, Advance Data Structures - Fall 2023

Frederick Community College - Frederick, MD

August 2019 - May 2021

GPA: 3.76

- (General Core Classes) - 41 credits completed

SKILLS

Programming Skills: Java, C, Ruby, Assembly, Ocaml, Rust

Operating Systems: Windows, Linux, Android

RELEVANT PROJECTS

Lexer, Parser, and Evaluator

- Coded a simplified Lexer, Parser, and Evaluator in Ocaml using a recursive descent parser model.
- Converted a string to a list of tokens, then use a recursive descent parser to convert it to a tree.
- Traversed the tree to evaluate the expression which supported most kinds of expressions including Ocaml-style recursive expressions.

Unix Shell

- Coded the internals to a Unix shell in C.
- Supported boolean operations, pipes, file redirection, and a few other commands.

Regular Expression Engine

- Coded the conversion from an NFA to DFA in Ocaml to learn more about how regular expressions work at the back end.
- Implemented many helper functions such as move, e-closer, accept, and more to make the main conversion function easier.
- Combined them all at the end to make it work with approved regular expression strings.

WORK EXPERIENCE

Target

May 2020 - Present

Food and Beverage Expert

Frederick, MD

- Work in a small team to accomplish the goal of keeping Target stocked throughout the day.
- Assist and help customers in many different aspects to improve their shopping experience.
- Train new employees to help them adapt to their new job.

Giant

June 2019 - February 2020

Deli Clerk

Urbana, MD

- Took orders and prepared the meats and cheeses in an efficient manner to obtain a seamless and friendly customer experience.
- Cleaned the department at the end of the day, and prepared for the morning crew to have an orderly start to the day.