

Katherine Lim

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EDUCATION

Carroll Community College | Westminster, MD

December 2021

Associate of Arts, Arts and Sciences

Towson University | Towson, MD

Expected Graduation May 2024

Bachelors – Computer Science

GPA: 4.0

Relevant Coursework: Data Structures and Algorithm Analysis, Software Engineering, Principles of Computer Organization, Operating Systems, Programming Languages: Design & Implementation, Web-Based Programming, Data Communications and Networking, Intro. to Theory of Computing, Intro. to Cybersecurity, Discrete Mathematics, Calculus I, Calculus II, Calculus III, Statistical Methods

LANGUAGES & SKILLS

Java, Python, Javascript, HTML, CSS, Latex, Git, Node.js

EXPERIENCE

Carroll Community College | **Mathematics and CIS Tutor**

July 2023 – Present

- Tutor students in mathematics courses up to Calculus III and CIS courses in Python

Upsilon Pi Epsilon | **Member**

April 2023 – Present

- Uphold the society's values and encourage enrichment of knowledge
- Promote the disciplines of computing and information

PROJECTS

NFA Simulator | **Java**

- Wrote a program that reads a string from the user in the binary alphabet and simulates the input string on a nondeterministic finite automaton defined by a text file listing the number of states, accepting states, and transitions, and determines if the input string is accepted or rejected by the given NFA
- Constructed a node class to represent the tree of scenarios for the given input string and NFA

TechQ Web App | **Javascript, HTML, CSS**

- Used React.js, Javascript, HTML, and CSS to create a web application allowing users to ask coding-related questions
- Implemented user authentication with Firebase
- Designed a visually appealing and interactive user interface

Recursive Descent Parser | **F#**

- Created a program in F# that accepts a space-delimited set of symbols input by the user representing a sentence as described by a grammar
- Outputs whether the input follows the grammar or the reason for unsuccessful parsing