Katherine Lim

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EDUCATION

Towson University | Towson, MD — May 2024
Bachelors – Computer Science
Carroll Community College | Westminster, MD — December 2021
Associate of Arts, Arts and Sciences
GPA: 4.0

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

LANGUAGES & SKILLS

Java, Python, C++, SQL, JavaScript, HTML/CSS, Kotlin, Git, MERN stack

EXPERIENCE

Carroll Community College | **Mathematics and CIS Tutor** — *July 2023 – Present*

- Tutor students in mathematics courses and CIS courses

Upsilon Pi Epsilon | **Member** — *April 2023 – Present*

- Uphold the society's values and promote the disciplines of computing and information

PROJECTS

TranslatePal Mobile App | **Kotlin, SQL**

- Developed a mobile application utilizing a translation API that enables users to translate phrases across multiple languages
- Designed a visually appealing and interactive user interface with Jetpack Compose
- Implemented a local database to store app data using the SQLite Room library

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 and designed a visually appealing and interactive user interface
- Implemented user authentication with Firebase