Tyler Do

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• Silver Spring, MD

Education

Montgomery College
08/2022 - 05/2024

Computer Science: 3.66 GPA

University of Maryland, College Park
08/2024 - 12/2026

Computer Science: 3.57 GPA

Skills

Programming Languages · C++ · Java · OCaml · Y86-64 Assembly · Rust · Python · Javascript · Racket · A86 Assembly · Pandas · SQL

Website Development · HTML · CSS

Software · Visual Studios Code · Eclipse · Bitvise SSH Client · Ubuntu

Projects

PokeDex First Generation (Javascript)
05/2025

- Collaborated with a team to build an app using the official Pokemon API to display the first 151 Pokemon.
- Implemented search and sort features by name and ID using routes.
- Added user rating system with database storage and rating-based display.

Town and Road Map Simulator (Java) (TDo_Project5)
11/2023

- Implemented backend for a provided GUI modeling towns (vertices) and roads (edges) as a weighted graph.
- Wrote methods for graph management and exception handling.
- Applied Dijkstra's algorithm to compute shortest paths between towns.

Course Database Manager Simulator (Java) (DoTyler_Assignment4)
10/2023

- Built backend for a provided GUI to manage a course database with add/retrieve features.
- Implemented data structure with HashMap<LinkedList<>> and file reader with exception handling
- Designed custom hash function using 4k+3 prime to reduce collisions.

Property Management Company Simulator (Java) (TDo_Project4)
04/2023

- Developed backend logic for a provided GUI to manage properties' size, rent, location, and restrictions.
- Created classes and methods to add/remove properties, calculate total rent, and list by criteria.

Message Encryption and Decryption (Java) (TDo_Project3)
03/2023

- Implemented backend logic for a provided GUI using Caesar and Bellaso cipher encryption and decryption methods.
- Supported wrapped offsets, keyword-based shifts, and error handling.