

Neil Gomes

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EDUCATION

University of Maryland - College Park, MD

Bachelor of Science in Computer Science

Expected Graduation: December 2026

SKILLS

Programming Languages : Java, C, Python, HTML/CSS , Javascript

Skills : Web Development, Data Analysis, Machine Learning

Tools/Frameworks : Node.js, React, MongoDB, Git, Unix/Linux, TensorFlow, Numpy, SQL

PROJECTS

CUSTOM MEMORY ALLOCATOR

- A mock malloc function to manage heap memory allocation in the **C programming language**.
- Developed **algorithms** to search, allocate and delete memory cells.

NODE JS WEB SERVER

- Developed a full-stack **Express JS server** supporting multiple dynamic routes using EJS templates for rendering **UI pages**
- Implemented full **CRUD-style** functionality with **MongoDB**, including creating, reading, filtering, and deleting applicant records in a collection.

WORK EXPERIENCE

Starbucks Coffee Company - Barista

November 2020 - Currently

- Operated in a **high-volume, time-critical environment**, consistently handling concurrent tasks while maintaining accuracy under pressure
- Followed **standardized procedures and workflows** to ensure quality, safety, and consistency across hundreds of daily transactions

RELEVANT COURSE WORK

CMSC216 – Introduction to Computer Systems

- The C programming language, memory management, assembly, operating systems, virtual memory, processes, command line tools

CMSC351 – Algorithms

- Recurrence relations, divide & conquer, asymptotic time complexity

STAT400 – Probability & Statistics

- Random variables, probability distributions, combinatorics, confidence intervals