MACKENZIE DOAN

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EDUCATION

University of Maryland, College Park — September 2022 - May 2026

Bachelor of Science in Computer Science, Minor in Asian American Studies

RELEVANT COURSEWORK

Web Application Development, Object-Oriented Programming, Discrete Math, Computer Systems, Algorithms, Data Structures, Programming Organization, Mobile Application Development, Data Science

SKILLS AND CERTIFICATIONS

- **Programming Languages**: Java, JavaScript, HTML, CSS, C, Python, TypeScript
- **Web Technologies/Frameworks:** React, Node, Express, MongoDB, Spring Boot, Pandas, Sklearn
- **Developer Tools:** Figma, IntelliJ, Git, Eclipse, Visual Studio Code, Jenkins, Bitbucket, Microsoft Azure

WORK EXPERIENCE

Medline Industries, LP — Chicago, IL
Software Development Intern — May 2025 - August 2025

- Built, tested, and deployed a microservice using Java, Spring Boot, and Jenkins that automates YAML file creation, Git branching, and pull request workflows to document and sync configuration changes
- Developed scalable RESTful API endpoints that read version-controlled configuration files and pushes updates to Azure App Configuration through an CI/CD pipeline, enabling bi-directional configuration management across test, dev, and prod environments
- Scaled solution into an enterprise-level application adopted by all eCommerce teams to enhance security, auditability, and reliability of configuration management
- Achieved a 96%+ code coverage using SonarQube to maintain codebase

Mission Agency — Baltimore, MD
Full-Stack Developer Intern — May 2024 - August 2024

- Developed custom front-end websites using JavaScript, HTML/CSS and jQuery for clients in the Baltimore area, including the Maryland Zoo and the Supreme Court Historical Society
- Repaired high-monthly traffic websites with 10,000+ viewers, leveraging WordPress and Drupal
- Performed thorough QA and ADA compliance testing for 2 websites, adhering to WCAG 2.2 guidelines for universal accessibility

ESF Summer Camps — Baltimore, MD
Coding Instructor — June 2023 - August 2023

- Spearheaded ESF's coding camps by guiding 15 campers in completing coding projects related to artificial intelligence using JavaScript and HTML, CSS
- Coordinated activities and weekly lessons, while fostering a positive and encouraging learning environment

PROJECTS

Professor Rating Predictions | Hugging Face, Sklearn, Pandas, Matplotlib — November 2025 - December 2025
Data Science

- Fine-tuned a transformer model from hugging face to predict professor ratings using NLP and tabular features; implemented data preprocessing, hyperparameter tuning, and performance evaluation.

Wishlist Tracker Application | HTML/CSS, JavaScript, Express.js, Node.js — April 2025 - May 2025
Web Application Development

- Created a full-stack app for managing user wishlists; implemented REST APIs and integrated MongoDB for persistent data storage.

Extended KD-Tree Project | Python — March 2025 - April 2025
Advanced Data Structures

- Implemented an Extended KD-Tree with cycle/spread split methods; added efficient insert/delete operations and node restructuring.

ACTIVITIES AND ACHIEVEMENTS

Activities: Society of Women Engineers, Vietnamese Student Association, Adobe Design Club, Crochet for a, Adobe Design at University of Maryland

Achievements: Dean's List (Spring 2025, Fall 2025)