DOUGLAS NGUYEN

Rockville, MD | P: +1 240-547-8529 | douglasnguyen181@gmail.com
GitHub: https://github.com/vitdn98 | US Citizen | Eligible for TS/SCI Clearance | Available in DC Metro Area

EDUCATION

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY   Baltimore, MD
B.S. in Computer Science
Expected Graduation: December 2025
Cumulative GPA: 3.3/4.0; Honors & Involvement: ABET-accredited program
Relevant Coursework: Algorithms, AI, Operating Systems, Software Engineering

MONTGOMERY COLLEGE   Rockville, MD
A.A. in Computer Science
Cumulative GPA: 3.79/4.0; Phi Theta Kappa Honor Society

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, Bash
Frameworks/Tools: Git, Linux, Flask, MySQL, Jupyter, Shell Scripting
Concepts: Multithreading, Backend APIs, Declarative Logic, Agile Development
Soft Skills: Team Collaboration, System Thinking, Communication

RELEVANT EXPERIENCE

SOFTWARE ENGINEERING (SIMULATED INTERN)
- Collaborated in an Agile team to build internal tools supporting secure academic communications.
- Designed modular APIs and handled backend logic in Flask with PostgreSQL integration.
- Applied logging, error handling, and testing frameworks to ensure system reliability.
- Participated in code reviews and sprint planning alongside academic stakeholders.

MONTGOMERY COLLEGE   Rockville, MD
Student Assistant, Counseling/Advising Department   2019 – 2021
- Supported scheduling and records systems serving 100+ students/week.
- Provided AV tech setup and troubleshooting for campus events and workshops.
- Developed Excel dashboards to visualize departmental usage and optimize workflows.

PROJECTS

MISSION PLANNER SYSTEM
Python, Flask, PostgreSQL
- Developed a mission coordination dashboard enabling teams to assign roles, equipment, and locations.
- Backend optimized with PostgreSQL triggers and Flask blueprints for modularity.
- Modeled key components of logistical planning inspired by high-stakes field operations.

CAMPUS NAVIGATION WEB APP
TypeScript, HTML, CSS, Flask, MySQL
- Full-stack web application for mapping real-time campus resource availability.
- Front-end interactions powered by TypeScript and modern fetch API for asynchronous data handling. Backend built with Flask, exposing RESTful endpoints to serve dynamic resource data.

DISTRIBUTED FILE SYSTEM SIMULATOR
C++, Linux, Multithreading
- Designed and implemented thread-safe file operations across a simulated networked drive system.
- Ensured deadlock resolution and system performance through mutex and I/O logic.

ADDITIONAL

- Committed to solving technical challenges that support national security and mission resilience.
- Practicing Java debugging, Spring security patterns, and system deployment pipelines.
- Available for roles in Hanover, MD or the greater DC metro area.