Thomas Billington

Objective: Obtain a software engineering summer internship position.

GitHub: https://github.com/tombillo1
Website: https://tommybillington.com
Location: Virginia // DC (willing to relocate)
(571) 271-4677 tommybillington@vt.edu

Skills

Proficient:

Python: Keras, NumPy, OpenCV

Linux: Git, Bash R, Java, C, C++

Familiar:

MATLAB, SQL, PowerBI Web Dev: HTML, CSS

Relevant Coursework

Quantum Computing, Data Structures & Algs., Computer Organization, Data Analysis & Visualization

Organizations

Sigma Phi Delta – Professional engineering fraternity – Director of Recruitment & Exec. Member

Young Men's Service League –Ashburn Chapter – Vice President & Founding member

Projects

StockAnalysis – Market prediction model using a recurrent neural network.

AnimeAl – Recommendation ML model for animated shows using a KNN algorithm.

RipeFruit – Computer vision program used to help farmers track ripeness in product.

PyWord – Python program that assists users in playing the popular game, Wordle.

Arduino Piano – C++ push-button piano engineered to include octave shifting and an LCD display.

Education

Virginia Tech - Blacksburg, VA

B.S. in Computer Science, Data-Centric Computing Graduating May 2024

• GPA: 3.32

Pursuing a focus in artificial intelligence and machine learning.

Experience

General Dynamics Information Technology – Reston, VA

Software Developer Intern June – August 2022

- Worked on the \$100 million ISEE contract with the Defense Intelligence Agency concerning software development in terms of infrastructure as well as identity, credential, and access management (ICAM).
- Collaborated with a sub-contracting company to automate the migration of thousands of over-seas email accounts. Wrote new PowerShell scripts as well as triaged bugs within the existing codebase to prioritize for execution.
- Configured ports and set specific network protocols on Cisco enterprise routers within a sensitive compartmented information facility.

Hokie Electric Vehicle Team - Blacksburg, VA

Software Engineering Researcher Sept 2021 – Present

- Currently working on the Connected and Automated Vehicles Team for the EcoCar 4-year design competition with headline sponsors such as General Motors, MathWorks, and the United States Department of Energy.
- Responsible for creating and integrating sensor fusion algorithms for a 2023 Cadillac LYRIQ. Primarily working with MATLAB and Simulink to prototype a custom Lidar/Camera system for pedestrian detection.
- Completed independent research on the different subsystems for a hybridelectric car that included propulsion controls, drivetrain components, and connected systems.