Timothy Asher

ashertim@vt.edu • LinkedIn • GitHub • Website

EDUCATION

Virginia Tech **Expected Fall 2022**
BS, Computer Science; GPA: 3.42 / 4.0 Blacksburg, VA, USA
Coursework: Data Structures & Algorithms, Software Engineering, Computer Organization I & II, Computer Systems, Linear Algebra, Discrete Mathematics, Combinatorics, Statistics for Engineers

SKILLS

- Languages: Java, Python, C, C++, SQL, MATLAB
- Tools: Git, Terminal, HTML, CSS, Linux/Unix, Windows, MacOS, LaTeX, Minitab
- Other: Data Structures, Algorithms, Unit Testing, Problem Solving, Presentation, Communication

WORK EXPERIENCE

Virginia Tech Department of Computer Science **Aug 2021–Present**
Undergraduate Teaching Assistant - CS1064 Intro to Python Blacksburg, VA, USA

- Helping students with Python code and answering questions to improve their understanding of the language
- Developing Python projects for the class in collaboration with other teaching assistants and the professor

Lowe's Companies, Inc. **June 2021–Present**
Merchandising Service Associate Newport News, VA, USA

- Working in a fast-paced, team environment
- Deploying product displays and maintaining merchandise inventory

NASA Langley Research Center **June 2018–June 2019**
Data Analyst (Mentorship) Hampton, VA, USA

- Tested boundary layer manipulators for a model fuselage with NASA research engineers
- Analyzed data and created plots for presentation

PROJECTS

Personal Website **Technologies: HTML, CSS**

- Built a resume and portfolio website
- Learning HTML & CSS to continuously improve and update the website
- Future plans include interactive features using Javascript

MIPS Assembler Emulator **Technologies: C, Assembly, Git**

- Built a C program that reads text files containing MIPS commands and converts them into binary
- Collaborated with a partner, used teamwork skills to communicate and complete work by set deadlines

"Boundary Layer Manipulation Risk Reduction Test" **Technologies: Excel, MacOS**

- Tested several boundary layer manipulator configurations on fuselage model in transonic, cryogenic wind tunnel
- Analyzed pressure and velocity data in Excel
- Created plots to compare test data to computational fluid dynamics models

CLUBS

- Artificial Intelligence & Machine Learning Club, Member Feb 2020 - Present
- Developer Student Club, Member Sept 2020 - Present
- Marching Virginians, Member Aug 2019 - Present
- Galileo Living Learning Community, Member Aug 2019 - Apr 2020