

Michael Henry Blair

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Summary –

- Currently a fourth-year student attending Virginia Tech planning to graduate in May 2023 with a major in computer science and a minor in mathematics.

Education –

Virginia Tech, College of Engineering; Blacksburg, VA (8/19 – 5/23)

- GPA: 3.35/4.00
- Bachelor of Science in Computer Science, Mathematics Minor
- Honors College Acceptance

Wellesley High School; Wellesley, MA (8/15 – 6/19)

- Weighted GPA: 4.12/5.00 – Honor Roll 2015-2018

Work Experience –

Ricoh USA (Mindshift Subdivision), June – August 2022

Customer Engineer Intern

- Intern with the Boston team that designed and constructed MDF and IDF racks that included UPSs, PDUs, servers, routers, switches, and patch panels at 5 schools. Monitored and troubleshooted networking issues as they arose.
- Worked and coordinated with costumers on site to fulfill their needs and create a summer-long plan to get the project done within our time constraint.
- Installed and monitored WAPs (wireless access points), printers, and set up/troubleshooted staff computer issues.

iCode of Wellesley, June – August 2020

Robotics and Code-Oriented Lead Camp Counselor

- Created and taught Lua projects, video game design and block coding concepts to elementary-age kids.
- Taught EV3 Robotics and created coding challenges for teams of kids to perform to achieve specific goals.

Projects –

- Personal Website – Taught myself HTML5, JS and CSS to create my own website and hosted it on AWS s3.
- Group Project – Created a framework for a fork/join multi-threaded work pool to allow parallel execution of divide and conquer algorithms. Tested for accuracy and proficiency in Linux.
- Group Project – Created a job control shell in a Unix environment using the posix_spawn API for process management.
- Solo Project – Created an implementation of a PR-Quadtree to hold GIS location records in a space-oriented structure to increase proficiency of searching methods.
- Solo Project – Implemented my own Hash Table to hold GIS records from a parsed file and executed commands from a script file in PowerShell.
- Solo Project – Wrote code to take input of MIPS32 machine language with .data and .text sections and generated the hexadecimal output a computer would read from said instruction set. Tested through GDB and Valgrind in Linux.
- Solo Project – Implemented the Fork-Fulkerson algorithm to find maximum flow of a directional, weighted graph.
- Personal Project – Wrote code to take a desired weight for a barbell in a gym and output the most optimal plates to use the least amount of plates possible.

Extracurricular Activities –

- Scholarship Chair of Beta Theta Pi Fraternity – Involved in many committees working on the betterment of our chapter.
- Member of the Artificial Intelligence and Machine Learning Club at Virginia Tech.
- Head Basketball Coach, 2018 – Volunteered as head coach for Wellesley Hoops, taught young high schoolers new basketball skills and teamwork, and won the 14-team league.
- Recent philanthropic endeavors include working for Habitat for Humanity, helping raise over \$20,000 for St. Jude's during a one-week event, and helping raise over \$15,000 in Beta Theta Pi's annual NAMI event last year.

Skills –

- **Proficiencies:** Java, C, Linux, Python, HTML5, JS, CSS, Git, GDB, Valgrind/Helgrind