Anna DiCarlo

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EDUCATION

Virginia Tech, Blacksburg VA
B.S. in Computer Science, College of Engineering, Expected May 2023
Minor in Pathways to Sustainability
GPA: 3.8/4.0, In major GPA: 3.8/4.0

Selected courses: Software Design and Data Structures; Computer Organization; Data Structures and Algorithms; Computer Systems; Human Computer Interaction; Applied Combinatorics; Integrated Quantitative Sciences; Discrete Math; Linear Algebra; Data in the Social Context; *Fall 2022 Courses:* Intermediate Software Design; GUI Programming and Graphics; Data and Algorithm Analysis; Comparative Languages

OBJECTIVE

Looking for a full-time position in Software Development.

SKILLS

Programming Languages: Java, Python, HTML, CSS, React, C, Bash, R,
Software: Linux, Eclipse, Valgrind, gdb, strace, R Studio, Jupyter, Matplotlib, Figma (UI, UML)
Strengths: Strong understanding of object-oriented programming and data structures; strong analytical and problem-solving skills; highly detail-oriented and organized

EXPERIENCE

Product Management Intern at Hilton   JUNE 2022 - AUGUST 2022
Worked with a product management team on multiple projects to improve the customer experience of the 'Groups Meetings & Events' portion of the Hilton website. Individually, created multiple UX/UI prototypes for product development using Figma.

PROJECTS

COVID-19 Case-Fatality Ratio by Race/Ethnicity Visualization   DECEMBER 2020
Led a small team in programming an interactive Java visualization tool that presents multidimensional COVID-19 data to give insight into data patterns.

External Sorting Algorithm   NOVEMBER 2022
Created an external sorting algorithm for binary data in Java by utilizing ByteBuffers, multi-way merging, and replacement selection.

64-bit Dynamic Storage Allocator   APRIL 2022
Implemented the malloc, free and realloc functionalities in C to create a dynamic storage allocator with efficient space utilization.

Student Success Center App Design   SPRING 2022
Performed contextual inquiry and designed and evaluated a prototype for a VT Student Success Center phone application. Synthesized the work and results in multiple report deliverables.

ACTIVITIES

Member of Alpha Omega Epsilon at Virginia Tech, an organization for women in STEM majors.