

Joshua J. Yang

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SKILLS: Java, Python, C, Linux, JavaScript, HTML, Kotlin, XML, Swing, Oracle, SQL

EDUCATION

Virginia Polytechnic Institute & State University, Blacksburg, VA

Major: B.S. in Computer Science **Expected Graduation:** May 2023

Department GPA: 3.7/4.0 **Cumulative GPA:** 3.8/4.0

Dean's List with Presidents Distinction, Virginia Tech (2020, 2021, 2022)

WORK EXPERIENCE

Naval Nuclear Laboratory, (FMP)

Niskayuna, NY

Software Development Intern

Summer 2022

- Designed and developed a test utility tool to test a product that manages, marshals, and collects data for Nuclear Reactors in submarines and aircraft carriers using Java, Swing, Oracle Database, SQL; product would eventually be delivered to the fleet of the U.S Navy.
- Worked within a Software Development Team and agile methodologies using Azure DevOps.
- Conducted code reviews with full-time employees to discover potential issues and bugs to prevent issues from occurring during production stages.

RELEVANT COURSE EXPERIENCE

CS 4104 Data and Algorithm Analysis

Blacksburg, VA

Virginia Tech Student

Spring 2022

- Demonstrated knowledge of data structures and algorithms from an analytical perspective, theoretical analysis of algorithm efficiency, comparing algorithms with respect to space and run-time requirements, analytical methods for describing theoretical and practical bounds on performance, and constraints affecting problem solvability.

CS 3214 Computer Systems

Blacksburg, VA

Virginia Tech Student

Spring 2022

- Gained knowledge of operating systems design and architectures, shell programming, inter-process communication, virtual and physical memory management and garbage collection, network protocols and programming, virtualization, and performance analysis and optimization through reading and writing C programs.

CS 3114 Data Structures and Algorithms

Blacksburg, VA

Virginia Tech Student

Fall 2021

- Exhibited knowledge of advanced data structures, file system organization and access methods, algorithm performance, sorting, searching, and hashing through reading and writing Java programs.
- Partnered with another team member to solve multiple complex data structure problems and build innovative software solutions aligned with specific product requirements utilizing Git and GitHub.

Personal Project: Currency Converter

Spring 2019

- Applied JavaScript and HTML to design a website to convert the U.S. dollar to 10 different countries' currencies.

Harvard's CSCI S-111 Intensive Intro to Computer Science

Cambridge, MA

Scholarship Recipient

Summer 2018

- Awarded a scholarship for Harvard's 8-week long summer program for ~500 global students to take Intensive Intro to Computer Science and completed 10+ assignments learning and testing Java knowledge, receiving an A- in the course.

VOLUNTEER & LEADERSHIP EXPERIENCE

AID Summer Overseas Youth English Teaching Program

Taipei, Taiwan

Teacher

Summer 2019

- Lead as one of ~500 volunteers who taught English at one of various remote schools in Taipei, Taiwan for ~30 elementary students utilizing self-designed lesson plans for 8+ hours daily.

Burke Basketball

Burke, VA

Coach

2015 – 2019

- Lead as a Head Coach of recreational basketball teams for elementary and middle school students utilizing self-designed drills and plays for ~40 players over 4 seasons.