

Domenic SanGiovanni
23 Plain Road • Westford, MA 01886
domsangio@gmail.com • 978-846-3362

EDUCATION**UNIVERSITY OF MARYLAND****College Park, MD****College of Computer, Mathematical, and Natural Sciences**

Bachelor of Science in Computer Science, Spring 2022

Bachelor of Science in Mathematics, Spring 2022

- GPA: 3.94/4.00
- Major GPA: 4.00/4.00
- Dean's List, Fall 2018 and Spring 2019
- Computer Science Honors

WESTFORD ACADEMY**Westford, MA**

Highschool Diploma, June 2018

Cumulative GPA: 4.01/4.00

ACT: 34

- Varsity Soccer
- National Honor Society
- Math Team

SELECTED COURSES**UNIVERSITY OF MARYLAND**

- CMSC 216 Honors Introduction to Computer Systems
- CMSC 351 Algorithms
- MATH 401 Applications of Linear Algebra
- MATH 410 Advanced Calculus I
- STAT 410 Probability Theory

EXPERIENCE**CAPITAL ONE****College Park, MD**

Internship, June 2019 – February 2020

- Full-stack development of a new Application monitoring tool built using Golang and React as part of a large team
- Worked on REST APIs creating and maintaining existing endpoints
- Designed and researched a new email subscription service to be implemented
- Implemented backend with Golang and postgresSQL

PROJECTS**Dijkstra's and A* Pathfinding**

- Found the shortest path between nodes in a graph data structure and added in a heuristic for dynamic A* pathfinding in a tower-defense game

Simple Programming Language

- Created a compiler and interpreter for a new programming language, written in OCaml, that successfully executes a program with loops, variables, and functions

Calendar App

- Designed a simple calendar app with Android Studio for the android OS
- Included small events and reminders on a per week basis

VOLUNTEER**SAINT CATHERINES****Presque Isle, ME**

Mission Trip, 2017 & 2018

- Traveled every year to Northern Maine to assist and support low-income and elderly residents
- Accomplished large projects such as creating two new handicapped ramps, renovating an old soup kitchen, and repairing a roof

SKILLS

Java, C, OCaml, Javascript (ReactJS), Git

ADDITIONAL

- Participated in college math competitions including VTRMC and Putnam
- Built a high-end personal computer from scratch