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 all semesters
- 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
- Implemented backend using Golang and PostgreSQL to store information in a database and incorporate API streams

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