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| **Domenic SanGiovanni** | | |
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| **EDUCATION** | | |
|  | **UNIVERSITY OF MARYLAND** | **College Park, MD** |
|  | Bachelor of Science in Computer Science, Expected Spring 2022  Bachelor of Science in Mathematics, Expected Spring 2022   * GPA: 3.95, Major GPA: 4.00 * Dean’s List all semesters | |
| **SKILLS** | | |
|  | * Java, C, JavaScript, Python, Golang, ReactJS, Git |  |
| **EXPERIENCE** | | |
|  | **CAPITAL ONE**  **SWE Internship, Jun 2019 – Feb 2020** | **College Park, MD** |
|  | * Full-stack development of a new application monitoring tool built using Golang and React as part of a large team * Built and maintained multiple REST endpoints communicating between frontend, backend, and database * Implemented and designed a new API stream to track compliance levels across all projects * Tested front-end code with Mocha and Enzyme and tested API and database changes using Gin-Gonic, achieving at least 85% code coverage | |
|  | **SYNOPSYS**  **SWE Internship, May 2020 – Present** | **Burlington, MA** |
|  | * Part of the Webservices-Management team responsible for a Spring Boot application to scan a project for potential vulnerabilities * Redesigned large-scale automated data collection service using python and pandas, increasing speed by tenfold * Optimized downloading projects into Excel file format for readability and easy access * Received return offer for Fall | |
|  | **PARALLEL SYSTEMS LAB**  **Research Assistant, Jan 2020 – Present** | **College Park, MD** |
|  | * Monitored and analyzed IO read/write speeds under varying levels of traffic and resources in an HPC system * Worked on Lawrence Livermore National Laboratory using spack, slurm, and MPI |  |
| **PROJECTS** | | |
|  | **Simple Programming Language**   * Created a compiler and interpreter for a new programming language written in OCaml * Full implementation of loops, variables, and functions, and recursive methods | |
|  | **Cybersecurity Bank Project**   * Created a client and server-side bank program with end to end encryption using RSA keys, AES encryption, and Cipher Block Chaining * Developed in a C environment using sockets for network and OpenSSL library | |
| **Airbnb Rating Predictor**   * Designed a rating predictor to determine the average rating of an Airbnb using quantitative and categorical data * Used a random forest classifier along with decision trees to train and run the model * Successfully predicted the rating within an average range of < 5.5 points out of 100 | |
| **ACHIEVEMENTS** | | |  |
|  | * Participated in math competitions including VTRMC and Putnam (placed top 30%) * University of Maryland Computer Science Honors | |