

# Salvatore Del Vecchio

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## Education

**College of William & Mary**, BA Computer Science, 3.49/4.0 Williamsburg, VA | 2022-current  
Relevant Courses: Algorithms, Discrete Structures, Software Development, Data Structures, Principles of Programming Language, Computer Organization, Finite Automata, Computational Problem Solving, Linear Algebra  
**Centreville High School**, Advanced High School Diploma with Honors, GPA: 4.37/5.0 Clifton, VA | 2018-2022

## Experience & Technical Skills

**William and Mary Technology Support Center Student Technician**, Job Position October 2024-current

- Worked on-campus for the William and Mary IT department at the Technology Support Center to troubleshoot and document various hardware and software computer issues of school staff and students
- Skills: Technology, computer hardware and software, documentation, customer service, communication

**PocketSplit App**, Personal Project August 2024

- Developed a mobile stopwatch app with the goal of improving on the default smartphone stopwatch. Includes features for adding and saving named splits and presets, and saving overall and split time records
- Skills: .NET MAUI, C#, mobile development, full stack development, SQL database, data saving and storage

**Chip-8 Emulator**, Personal Project July 2024

- Emulated the Chip-8 interpreted language based on known documentation for it. This allows any Chip-8 game ROM to be understood and be played and displayed using this program with debug features
- Skills: C++, SDL2, bit manipulation, low-level programming

**Personal Portfolio Website**, Personal Project June - July 2024

- Programmed a personal website for my portfolio to better display information about my skills and diverse projects while learning about web development (<https://saldelv.github.io/Portfolio-Website>)
- Skills: JavaScript, React, HTML, CSS, GUI, web development, full stack development

**Desktop RPG Game**, Personal Project June 2024

- Designed and developed an idle RPG game that is played on your desktop. Makes use of GUI and database functions to create a unique and interesting game based on an original design idea with many features
- Skills: Python, GUI, SQL database, SQLAlchemy, game design and logic programming

**Neural Network Pokémon Image Identifier**, Personal Project May - June 2024

- Engineered and trained a neural network to predict images of different Pokémon. Accuracy results after much optimization for all 149 classes were similar to the expected accuracy for an average CIFAR-100 result
- Skills: Python, PyTorch, TorchVision, machine learning, image model training, GPU/CPU Optimization

**3D Cube Temple Platformer Video Game**, Personal Project May 2024

- Created a 3D platformer game with many unique features using Unreal game engine. Made in 2 weeks with no prior game engine knowledge to learn about and explore my interest in coding bigger video games
- Skills: C++, Unreal Engine, game design and logic programming, game engines

**Cerebral Valley Startup Company Contract Work**, Freelance Work November 2023 – February 2024

- Worked collaboratively on multiple instances with startup company Cerebral Valley, including writing code to benchmark and compare different AI vector database speeds to improve productivity and time spent testing improvements to their own vector database (<https://github.com/raydelvecchio/vdb-benchmark>)
- Skills: Python, vector databases, AI models, Pandas, time optimization, data analysis

**Web Page Count Chrome Extension**, Personal Project January 2024

- Coded a Google Chrome extension that keeps track of the number of times a specific web page is visited using the Chrome API. It allows users to view that information for each web page and reset it
- Skills: JavaScript, HTML, APIs, web development, data saving and storage

**Technical Skills:** Python, C++, Java, JavaScript, HTML/CSS, Git, SQL, React, PyTorch, PowerShell, MS Office certified

## Activities and Events

- **&hacks William and Mary Hackathon Attendee**, October 2024
- **William and Mary Game Design Club**, 2024-current
- **William and Mary Archery Team**, 2022-current (Team Captain, Coach, and Armorer, 2023-current)
- **Izaak Walton Archery Team**, 2018-2022 (Competed at a national level)