Nicholas Malamud

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Linkedin / Github / Portfolio

Education:

Bachelor of Science, Computer Science — California State University San Marcos
August 2019 – May 2023 — **3.9 GPA**

Experience:

Research Assistant (Software Developer) — California State University San Marcos
December 2022 – Current

- Developed VR / MR chemistry labs within Unity (C#) to facilitate groundbreaking research into the benefits of virtual reality learning compared to traditional classroom methods.
- Contributed to the development of UI menus and the implementation of virtual lab tools.
- Regularly tested the application to identify bugs and improve overall user experience.
- Employed Plastic SCM for version control, contributing to multiple code branches.
- Collaborated via Microsoft Teams, participated in pair programming in Visual Studio, and attended weekly Zoom meetings.

Technical Skills:

Languages: C++, C, Python, SQL, C#, Java, JavaScript, HTML, CSS, PHP, Kotlin, Unix Bash
Software: Unity, GitHub, Android Studio, Visual Studio, Eclipse, Wireshark, Blender

Clubs:

Cybersecurity Club, California State University San Marcos:

- Participated in the National Cyber League Competition (Fall 2022 and Spring 2023)
- Our team Placed 16th with 93% Completion and 99% Accuracy
- Challenges include Cryptography, Enumeration & Exploitation, Forensics, Log Analysis, Network Traffic Analysis, Open Source Intelligence, Password Cracking, Scanning & Reconnaissance and Web Application Exploitation
- General tasks include decrypting text, parsing data out of large log files, unhashing passwords using Hashcat, analyzing network captures in Wireshark, using Unix shell commands, decompiling code on Ghidra and exploiting vulnerabilities in websites.

Projects:

Bot Security Test, California State University San Marcos:

- Bot that can mimic human behavior and play a color clicking game by itself (Python, Unity)
- Uses OpenCV library to detect the color and pyautogui library to control the mouse.
- Developed an algorithm to make natural looking mouse movement.

Fast Food Ordering Application, California State University San Marcos:

- Desktop food ordering application, using Swing GUI Library and an SQL Database (Java, SQL)
- Has a resizable UI to fit every monitor size and scrollable lists to adjust to changing data.
- Built into a JAR executable which can run on both Windows and Mac Operating Systems.

eBook Rental Website, California State University San Marcos:

- Website where users can rent and upload eBooks (HTML, CSS, PHP, SQL)
- Session cookies track users on the server and prepared statements prevent SQL injections.
- Facilitates ecommerce based on user-generated content.

MySimplePlanner Application, Personal:

- Weekly planner application to save notes and create daily to-do lists (Python)
- Built into an executable that features a resizable UI made with the Tkinter Library
- Automatically opens to the current week and has convenient navigation and save button.