Nicholas Malamud

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Education:

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

Experience:

Software Developer & Research Assistant   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 Enumeration & Exploitation, Forensics, Log Analysis, Network Traffic Analysis, Open Source Intelligence, Password Cracking, Scanning & Reconnaissance and Web Application Exploitation

Projects:

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.

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.

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.