Nicholas Malamud

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EDUCATION

California State University, San Marcos   San Marcos, CA
Bachelor of Science in Computer Science (3.9 GPA)   *Aug. 2019 – May 2023*
- **Coursework:** Data Structures, Algorithms, Operating Systems, Software Engineering, Programming Languages, Compilers, Networking, Cybersecurity, Database Management, Web Development, Mobile Applications, Game Development

EXPERIENCE

California State University, San Marcos   San Marcos, CA
Software Developer   *Dec. 2022 – Dec. 2024*
- Graduate researcher on National Science Foundation sponsored project.
- Developing VR/MR chemistry labs within Unity (C#) to facilitate groundbreaking research into the benefits of virtual reality learning compared to traditional classroom methods.
- Regularly testing the application to identify bugs and improve overall user experience.
- Employing Plastic SCM for version control, contributing to multiple code branches.
- Collaborating on Microsoft Teams, participating in pair programming in Visual Studio, and attending weekly Zoom meetings.

Data Annotation Tech   Remote
AI Trainer   *Dec. 2023 – Mar. 2024*
- Freelance Position focused on the analysis of AI chatbot models.
- Responsible for crafting coding prompts and evaluating responses against multiple criteria.
- Tasked with testing, fixing and debugging generated code to ensure the best quality answers.
- Working with a variety of languages including Python, HTML, CSS, JavaScript, SQL, and Java.
- Generating graphs for datasets using pandas and Matplotlib.

PROJECTS

Bot Security Test | *Python, Unity*
- Bot that can mimic human behavior and play a color clicking game by itself.
- 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 | *Java, SQL*
- Desktop food ordering application, using Swing GUI Library and an SQL Database.
- 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 | *HTML, CSS, PHP, SQL*
- Website where users can rent and upload eBooks.
- Session cookies track users on the server and prepared statements prevent SQL injections.
- Facilitates ecommerce based on user-generated content.

MySimplePlanner Application | *Python*
- Weekly planner application to save notes and create daily to-do lists.
- 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 buttons.

TECHNICAL SKILLS

Languages: Java, Python, C++, C, C#, SQL, JavaScript, HTML, CSS, PHP, Unix Bash

Developer Tools: Visual Studio, Eclipse, Unity, Plastic SCM, Wireshark, Android Studio, Hashcat, Blender

Libraries: Swing, pandas, Matplotlib, OpenCV, Tkinter

ACTIVITIES

Cybersecurity Club @ CSUSM   *Fall 2022 – Spring 2023*

- Participated in the National Cyber League Competition.
- 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.
- Tasked with 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.