ALEX NGUYEN

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OBJECTIVE

Seeking a software engineering or product design support position to leverage my skills in development, testing, and problem-solving. Strong ability to work independently and collaboratively in a team.

EDUCATION

University of California, Santa Cruz – Santa Cruz, CA   June 2023
B.S. Computer Science: Computer Game Design
Relevant Coursework:

Data Structures & Algorithms, Computer Systems & Assembly Language, Game Development Experience, Game Design Experience, Algorithmic Music for Games, Game Graphics & Real-Time Rendering, Advanced Programming, Introduction to Computer Graphics, Web Applications

SKILLS

Programming Languages: Python, JavaScript, C++, Java, HTML, CSS, React, C#, MIPS, Go
Technologies: Visual Studio Code, PyUnit, Pycharm, Unity, Eclipse, Visual Studio C++, NotePad++, Git, GitHub, Windows, Mac, Unix, G Suite, Microsoft Suite, Google Collaboratory, Adobe Photoshop, Adobe Illustrator & After Effects, Sony Vegas Pro
Others: Communication, Collaboration, Video Editing, Social Media, Photography,

PROJECTS

Manifestival - A Spotify Music Festival Lineup Generator   June 2023
- Developed a web application that leverages the Spotify API to create personalized music festival lineups for users based on their personal top artists on Spotify. It provides users with an engaging visual representation of a festival poster and a list of their favorite artists and songs. Users can choose to view their top songs/artists from the past 30 days, past 6 months, or all time, and the artist names on the festival poster update dynamically.

To-Do List Website   June 2023
- Developed a user-friendly website using HTML and the Django framework in Python. Implemented functionality for users to create, edit, and delete tasks in a to-do list. Incorporated user registration and login features, with authentication for task creation. A search function for tasks is available and a database is functional.

3D World   May 2023
- Utilized WebGL and Three.js, a powerful JavaScript 3D library, to create an immersive 3D scene. Designed and implemented complex 3D shapes and models, incorporating multiple light sources and shaders. Added a textured skybox to enhance the visual environment. Implemented a dynamic camera system with perspective projection for a realistic viewing experience.

Discord Restock Bot   July 2022
- Designed a Discord bot in Python that utilizes web scraping to send restock notifications for tech products.

Twitch Chat Bot   June 2022
- Built a custom Twitch chat bot in Python using the TwitchIO asynchronous Python Internet Relay Chat (IRC) library.

Image Predictor   February 2022
- Trained a machine learning model using p5.js and ml5.js libraries in JavaScript to classify images.

FPS Aim Trainer   December 2021
- Developed an aim trainer game in Unity using C# where players aim at randomly spawned targets.

Casino Slot   June 2021
- Created an interactive slot game using Pygame modules in Python with adjustable bet values and win/lose mechanics.

Credit Card Debt   July 2020
- Built a C++ application that reads credit data from files and calculates a monthly payment schedule for credit card debt.

Banking Application   June 2019
- Designed a Python application that parses a CSV file and converts data into four classes. Each class returns information related to payments, borrowed money, interest owed, checking/saving accounts, loans, and profits.

EXPERIENCE

Host/Food Runner/Server, Shabuya – Milpitas, CA   2021 – 2023
Assisted customers, managed the restaurant's waitlist, and provided seating and serving services.

Basketball Sports Coach, Legarza Sports – San Jose, CA   June 2019
Coached, motivated, and inspired a group of children to improve individual and team skills through drills, games, and competitions. Provided written evaluations to each camper and parents.

Cabin Leader, Walden West Science Camp – Saratoga, CA   April 2017
Volunteered 100 hours and led a cabin of 5th and 6th grade students. Applied skills to maintain a safe, fun, and educational environment for the campers. Assisted instructors in touring campers around nature and trails during field classes.

Staff Assistant, Silver Creek High School – San Jose, CA   2016 – 2017
Performed various tasks including paperwork, photography, audio, and video editing for school events.

Math and Reading Tutor, Kumon – San Jose, CA   2014 – 2016
Assisted students aged 5 -16 to accelerate in math and reading. Assigned and graded homework and class work. Recorded scores and tests on computers.