Granger D. Pasko

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EDUCATION

University of California, Santa Cruz (UCSC) ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Graduation**: June 2024
⠀⠀Bachelor of Science in Computer Science ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀GPA: 3.6 – Dean's List

Relevant Coursework
⠀⠀Data Structures & Algorithms, Computer Systems, Web Dev, Computer Graphics, Operating Systems, Computer Architecture, Computational Models, Functional Programming, Vector Calculus, Discrete Math

Relevant Skills
⠀⠀Python, C/C++/C#, Java, JavaScript, HTML, Software Engineering, Machine Learning/AI, Multi-Threading, Game Design/Development, Databases, Firebase, GitHub, Web Scraping, CAD, Leadership, Assembly Code

WORK EXPERIENCE

Game Development ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Santa Cruz/San Diego, CA**
Green City Manager ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀*June, 2021 – Present*
- Designed this 3D strategy game with the goal of educating the players on sustainable infrastructure practices alongside my development team.
- Programmed the system of variable interactions involving currency, game specific values, and their effect on the game play and reflection in the user interface across various classes and game elements.

Turtle Recon
- Designed this educational 3D rogue like with the help of my development team with the goal of raising environmental awareness.
- Developed the player movement mechanics and functionality of the obstacle spawner and obstacles.

Solo Development
- Created a mobile "runner", "idle" and a top-down shooter in Unity 2D with original code and assets. These games have offline earnings, player saves, shop mechanics, and game element manipulation.

UCSC Capstones & Other Projects ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Santa Cruz, CA**
Pacman AI ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀*March – December, 2023*
- Developed AI agents to play Pacman using Reflex, Minimax, and Q-learning.
- Served as a technical lead for defense agent in a capture-the-flag-style Pacman tournament.

KVS Cache
- Programmed a key-value store cache in C to analyze documents' word frequency using multithreading.

Minecraft World
- Created an interactive 3D Minecraft world with animations and lighting effects in JS.

Dairy Clerk ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Solana Beach, CA**
Sprouts ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀*June – August, 2022*
- Provided waiting and busing services as well as helped in closing procedures
- Communicated with the kitchen staff in Spanish and sometimes translated for clarification

Waiter ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Solana Beach, CA**
Solana Beach Fish House ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀*June – September, 2020*
- Worked as bus person, waited tables, and helped in closing procedures

ACCOMPLISHMENTS & EXTRA CURRICULAR

Santa Cruz Hackathon ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Santa Cruz, CA**
Participated in the annual, two-day long coding competition at UCSC known as Cruz Hacks

Club Volleyball ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**San Diego/Santa Cruz, CA**
Starting middle blocker on Santa Cruz club volleyball team

TVIA (Teen Volunteers In Action) ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**San Diego, CA**
Volunteered in my community cleaning up lagoons, planting trees, feeding the homeless, doing manual labor for local farms, running Special Games events, participating in Miracle League, etc.

Torrey Pines Volleyball ⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀⠀**Santa Cruz, CA**
Varsity Team (2019–20); Captain of Junior Varsity Team (2018–19); Captain of Freshman Team (2016); Integral member of Coast Volleyball Club 18u, ranked top 50 in the nation.

Tae Kwon do
Instructor who worked with students of all ages and those with special needs (2016-2018); Co-captain of the Demonstration Team (2016–2017); Regional Competitor; Achieved Nationally certified black belt at age 13.