

Christian Hizon Crisostomo
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PROFESSIONAL SUMMARY

Recent, energetic, hardworking, and compassionate SDSU Computer Science Bachelor's Cum Laude graduate with experience in machine learning, machine communication, software development, and system administration using Python, Keras, TensorFlow, Pandas, NI LabView, Java, C++, and various Linux distributions. Ambitious to apply knowledge from my university and projects to the real world to solve real-world problems as a Machine Learning Engineer.

EDUCATION

B.S. Computer Science — Cum Laude, San Diego State University, San Diego, CA
May 2025 – 3.65 SDSU GPA

AS-T Computer Science — Southwestern College, Chula Vista, CA
May 2023 – 3.48 Transfer GPA

WORK EXPERIENCE

Apple Inc. August 2021 - December 2023
Operation and Customer Specialist, Chula Vista, California

- Used SAP retail to check and manage inventory, shrinkage, and unit loss.
- Frequently attended to customers' technological bugs and product questions to provide a solution.
- Responsible for shipping, receiving, and fulfillment.
- Exceeded expectations for product delivery and accuracy to the sales floor for the first, third, and last fiscal quarters of 2023

NASA Community College Aerospace Scholars (NCAS) January 2023 - August 2023
Academic Experience

- Participated in a career simulation with a team as a software specialist to develop a lunar rover.
- Presented a software stack consisting of a localization module, a stability testing module, and a motion planning module to a NASA guest panel.
- Participated in a robotics competition at Orange Coast College as a software engineer using LEGO SPIKE to program an automated rover to navigate lunar obstacles and collect samples.
- Created an infographic on the Space Technology Mission Directorate.

Naval Information Warfare Center June 2023 - August 2023
Software Engineering Internship, San Diego, California

- Partnered with scientists, physicists, and engineers to work on radio frequency software and analysis using NI LabVIEW and MATLAB.
- Developed a data collection virtual instrument, turning a manual two-hour task into an automated time of five minutes.
- Created a virtual instrument controller for the HP 8341B Synthesized Sweeper to automatically generate radio frequency using two variables: frequency (MHz) and power (dBm).
- Utilized machine communication by automating the dataset creation of radio frequency using a CSV Excel file and saving each iteration of data with the Tektronix DPO71604C Oscilloscope.

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PROJECTS

Unix & Linux System Administration - **VMware**

- Created servers on OpenBSD, FreeBSD, Rocky Linux, and Ubuntu using VMware virtual machines.
- Incorporates DNS with BIND9, an LDAP directory, encryption certificates with OpenSSL, e-mail with sendmail and dovecot, file service with NFS, containers with Docker, and web servers with NGINX.

[AI vs Real Image Detector](#) - **Python Notebook**

- Developed a convolutional neural network (CNN) model in a team as a software engineer and codebase maintainer to distinguish between AI-generated and authentic human images, utilizing TensorFlow and Keras frameworks.
- Curated and preprocessed a comprehensive dataset sourced from Kaggle
- Contributed to engineering and training a discriminator model for deployment and further evaluation purposes.
- Help authored a comprehensive project report detailing the methodology, experimental results, and conclusions drawn from the study.
- Discriminator model performs with 90-95% confidence on the database containing over 80,000 images.

[Multi-Level Page Table Simulator](#) - **C++**

- Developed a C++ application simulating a multi-level page table system, facilitating the understanding of virtual memory management concepts.
- Implemented trace-based logging mechanisms to monitor and record memory access patterns, aiding in the analysis of page table behaviors.
- Designed the simulator to handle various page replacement algorithms, enhancing its versatility in demonstrating different memory management strategies.
- Utilized standard C++ libraries and adhered to best practices in memory management to prevent leaks and ensure efficient performance.

[Exodia](#) - **Unity, C#**

- A 3-D first-person tower defense game created in Unity using C#, ShaderLab, and HLSL.
- Incorporates scripts involving enemy pathing, tower tracking, bullet projectiles, wave spawner, and HUD containing wave number, currency, and towers.
- Includes two extensive and detailed maps with different themes.
- Involves an audio manager script that allows developers to put SFX on entities with ease.

Offensive Computer Security - **Kali Linux**

- Used Kali Linux for penetration testing in various operating systems and server targets such as Metasploitable, Ubuntu, Turnkey Dokuwiki, a domain controller, LAMP, and WordPress
- Found various system networks with commands ifconfig and ip
- Ran command nmap against targets using TCP and UDP switches, and version banner harvesting to discover active devices, services, open ports, and operating systems.
- Generated a Greenbone Vulnerability Manager scan report to analyze vulnerability detection based on TCP and UDP ports

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Portfolio Website - HTML, CSS, JavaScript

- A clean and modern personal website created with Hypertext Markup Language and designed with Cascading Style Sheets.
- Displays sections such as a biography, skills, projects, portfolio, and contact me.
- Incorporates functions and methods using JavaScript such as a redirecting menu, toggleable accordion skills, qualification tabs, a portfolio swiper, a dark and light display, and a contact form to email service API.
- Optimized and adaptable to different-sized devices and media.

SKILLS

Proficient in: Java, Python, C++, C, VIM, and NI LabVIEW

Familiar with: UNIX, JavaScript, HTML, CSS, MIPS assembly, MATLAB, LEGO SPIKE, OpenBSD, FreeBSD, Rocky Linux, Ubuntu, Unity, Python, C#, R, MySQL, Kali Linux, Powershell, Bash, Perl, Chitubox, Blender, PHP, WordPress

EXTRACURRICULAR ACTIVITIES & AWARDS

Southwestern College Vice President's Honors List	August 2022 - December 2022
NASA Career Simulation Completion Certificate	March 2023
NASA Community College Aerospace Scholars	August 2023
SDSU Fall Dean's List	August 2023 - December 2023
SDSU Spring Dean's List	January 2024 - May 2024
SDSU Spring Dean's List	January 2025 - May 2025

LANGUAGES

Proficient in: English

Familiar with: Tagalog, Spanish