ANDREW SO 4 951-310-8271 acso221@outlook.com Corona, California github.com/MisterSoandSo in/andrew-chiang-so/ SUMMARY -SKILLS -With six years of programming experience, my expertise Python, Rust, C/C++, Java, Bash, Batch Languages: spans image processing, data automation, and embedded system design. Notably, I'm equally adept at thriving Technologies: AWS, GCP, Docker, OOP, OpenCV, Panin collaborative work settings. das, Numpy, CI/CD, SQL, Django, JQuery, JavaScript, CSS, HPC, Embedded Software Linux Ubuntu/Mint, Raspbian, Windows Operating Systems: Soft Skills: Verbal communication, positive attitude, adaptable **EDUCATION** -

08/2020 - 06/2022 Master of Science - Computer Science

Cal Poly Pomona

05/2018 - 05/2020 Bachelor of Science - Computer Science

Cal Poly Pomona

01/2016 - 12/2017 Associates of Science - Mathematics

Riverside Community College - Norco

EXPERIENCE -

8/2022 - Present Freelance Software Developer

Self-Employed

- Regularly submitted project proposals to secure project commissions.
- · Create personal projects in my spare time to enhance skills and explore new ideas.
- · Regularly communicated with clients on ongoing progress and conducted feasibility assessments to keep the project on track.
- · Developed over six applications, rigorously adhering to version control protocols and adhering to precise client requirements and functional specifications.

Agile / Prototyping / Technical Documentation / Unit Testing / RS232 / Flask / Node.js / ESP32 Micro-controllers / Selenium / REST Api / Python

4/2022 - 10/2022 Web Developer

Code the Spectrum

- · Partnered in a two-person team to handle both front-end and back-end tasks for web content and the event's participant submission page.
- · Jointly collaborated with the media committee to design and present the conference information.
- · Managed and maintained corespondents from participants and sponsors, with the added responsibility of discerning and filtering non-priority emails for my supervisor.

Html / 3rd Party Software Integration / Communication / Linux / Wordpress

5/2021 - 8/2022 Graduate Research Assistant

Cal Poly Pomona

- Guided and offered technical assistance to six NSF research students.
- · Utilized 4k resolution 3D models to investigate the influence of resolution and stickers on computer vision
- Trained and rendered multiple viewpoints of adversarial sticker to handle 3D surfaces.
- · Investigated the significance of attack success rate to misclassification rate on the transferability of adversarial sticker attack method.

Technical Writing / Latex / 3d Modeling / Computer Vision / Encryption / Python

6/2019 - 5/2020 Undergraduate Research Assistant

Cal Poly Pomona

- · Created realistic 3D models using photogrammetry and Blender for computer vision attack simulations.
- · Corrected and simplified mesh models to remove holes and reduce simulation time on texture space
- · Trained and tested different encrypted ensemble model, employing various weights and bias in Python and Keras that is then transferred to CryptoNet.
- · Summarized the results of various data distribution and analyzed the accuracy and efficiency of the proposed CNN ensemble algorithm.

Git / Unit Testing / Photogrammetry / Blender / Agisoft / Homomorphic Encryption

PROJECTS —	
Software	Python Web Service Developed a Python web service that executed computations prior to responding to client requests, and implemented a console-based user management system for secure HTTPS communication between client and server devices.
Software	Python Gmail Extractor Customized an email extraction program using the Google Cloud API to download Gmail content. Created Python scripts to implement OCR software for extracting tabular data from images and effectively stored it in an SQL database.
Network Library	PyAuthCXMLogin Developed a Python network library to establish a connection between Python and Xbox Live authentication, addressing the challenge posed by the Mojang authentication service's depreciation in September 2022. Employed Selenium to facilitate login and retrieve Microsoft Authentication Tokens.
PUBLICATIONS	
2020	Xiong A, Nguyen M, So A, Chen T. Privacy Preserving Inference with Convolutional Neural Network Ensemble 2020 IEEE 39th International Performance Computing and Communications Conference (IPCCC)
2020	Yao P, So A, Chen T, Ji H. Multiview-Robust 3D Adversarial Examples of Real-world Objects CVPR 2020 Workshop
2022	Oslund S,Washington C, So A, Chen T, Ji H. Multiview Robust Adversarial Stickers for Arbitrary Objects in the Physical World. Journal of Computational and Cognitive Engineering 1 (4), 152-158