

# André Shannon

he/him/his

## Contact

- +1 (540) 200-7692
- andrejshannon@gmail.com
- 931 Cayuga Ave, San Francisco, CA 94112
- andre-shannon
- AndreShannon
- https://andreshannon.github.io

## Skills

### Technical

Python • C++ • Java • Git • JavaScript  
HTML • CSS • SQL • Handlebars  
Express.js • Mathematica • LaTeX

### Other

Agile SW Development • Scrum • Trello  
User-centric design • Adaptability  
excellent teamwork, communication and  
organizational skills

## Personal Projects

### ML Spoiled Food Detector

- February 2026
- Implemented ML object recognition to filter food items and then a Spoiled/Fresh classifier on a Raspberry Pi. Also included a gas sensor to catch spoiled foods emitting gasses.

### Emotion Vision Transformer

- December 2025
- Build a vision transformer to classify emotions in face images from Emotion Detection FER-2013 dataset

### Mental Health Chatbot

- April 2025
- Hackathon project using Gemini API with RAG enhancement using ChromaDB

### Discord Meme Chat Bot

- November 2021
- Integrated OpenAI's GPT-3 NLP model into a Discord chat bot
- Built with PRAW Reddit API and hosted on AWS EC2

### MNIST Image Classifier From Scratch

- May 2021
- Created a Python ML classifier to classify digits from MNIST dataset
- Built from scratch (only external library used was Numpy)

## EDUCATION

### San Francisco State University

- August 2024 - Present
- San Francisco, CA
- Pursuing a Master's in Computer Science
- Expected graduation date May 2026
- GPA: 4.00/4

### University of Richmond

- August 2018 - May 2022
- Richmond, VA
- Bachelor of Science in Mathematics and Computer Science
- Departmental Honors in Computer Science
- GPA: 3.89/4, summa cum laude

## SELECTED SCHOOL PROJECTS

### Applied Research Project

- San Francisco State University
- August 2025 - present
- San Francisco, CA
- Aiming to improve GUI grounding for agentic AI
- Exploring how quality of data impacts training and performance and experimenting with data filtering methods

### Software Engineering Course

- San Francisco State University
- August 2024 - December 2024
- San Francisco, CA
- Team lead for a semester-long project for a group of five, simulating a software engineering team at a startup.
- Team built a tutor website while focused on Agile SW development, user-centric design, communication, and teamwork.

### Independent Researcher

- University of Richmond
- August 2021 - May 2022
- Richmond, VA
- Developed provably robust deep learning explanation methods for image classifiers using Python
- Applied randomized smoothing technique to LIME explanation method

## WORK EXPERIENCE

### Lead Instructor

- iD Tech Camps
- Summer 2024, 2025
- Stanford, CA
- Instructed and supervised 7-17 y/o at week-long camp courses
- Courses included Python Coding 101, Robotics Engineering with VEX, and Virtual Robotics and Scratch

### Teacher

- Integem - Summer Augmented Reality Camp
- June 2023 - July 2023
- Larkspur, CA
- Instructed 6-18 y/o at week-long augmented reality courses
- Courses included Python coding; creating 3D models through Roblox and Mixamo; building, connecting, and controlling robots (Crowbot and Raspberry Pi Pico car); and incorporating AI using Google Vision kit and Nvidia Jetson Nano