

CONTACT

LOCATION

New York, NY

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(718) 312-2208

GITHUB

github.com/AndresASJ

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

In Progress

SKILLS

Languages

Python C++ Swift

JavaScript

SQL / MySQL

HTML / CSS

Frameworks & Libraries

OpenCV NumPy

Pygame SwiftUI

Core Audio

Infrastructure & Tools

Docker Portainer

Linux Git

Cloudflare APIs

Automation

Focus

Backend Engineering

Andres Jimenez

SOFTWARE ENGINEER

Software engineer and Computer Science student who builds end-to-end – a native bit-perfect audio player, a self-hosted homelab, and the computer-vision and algorithm work in between. Strong in Python and C++ with hands-on containerization and Linux, plus a track record teaching and mentoring in tech.

EXPERIENCE

Junior Developer · Bluesky Pickup

Dec 2025 – Present

- Built automatic order routing for the platform and helped design and stand up its databases.
- Maintained and shipped ongoing updates to the company website.

Computer Science Teacher · Kodely

Sep 2023 – Jun 2024

- Led tech-literacy and design-based workshops for middle- and high-school students.
- Taught after-school sessions on prototyping, design thinking, hardware, and game design.

Software Engineering Fellowship · Yext

Sep 2024 – Jun 2025

- Completed a software engineering fellowship with a senior engineer, working through real-world problem-solving and industry practice.

SELECTED PROJECTS

Kord · native lossless audio player

2026 – present

Swift · SwiftUI · Core Audio · AVFoundation

- Building a bit-perfect FLAC player for iPhone & Mac — decodes files bit-for-bit with automatic sample-rate switching and direct DAC output, no resampling in the path.
- Shipped a parametric EQ, time-synced lyrics, and a self-organizing tag-based library.

CM3588 Homelab · reproducible self-hosted stack

2024 – present

Docker · Portainer · Linux · Cloudflare

- 20+ containerized services orchestrated with Docker & Portainer on a single ARM board, documented to rebuild from scratch.
- Secure remote access via SSH tunneling, a self-hosted VPN, and Cloudflare; self-hosted photo backup with Immich and file sharing with Samba.

Card Detection · real-time computer vision

2025

Python · OpenCV · NumPy

- Real-time playing-card recognition from a webcam feed: contour detection with perspective correction, then ORB feature matching against a 52-card template set.

Also built — **PythonChess** (Python/Pygame) full chess engine with check/checkmate detection · **IP-Data** (Python/Folium) geolocates any public IP to an interactive map.