

# BRETT HENDERSON

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## TECHNICAL SKILLS

LANGUAGES: TypeScript, Swift, Go, C++, Python, Solidity, Javascript

FRONTEND: React, Next.js, Svelte, SvelteKit, SwiftUI, UIKit

BACKEND: Bun, Node.js, REST APIs, PostgreSQL, Redis, Meilisearch, GraphQL, BullMQ

INFRASTRUCTURE: Docker, CI/CD, GCP, Railway, Vercel, Cloudflare

MEDIA: HLS, AVFoundation, CoreAudio, CoreMIDI, FFMpeg

OTHER: Git, Cryptography, Smart Contracts, Distributed Systems

## EXPERIENCE

### Catalog Records Inc.

#### Staff Software Engineer

JUL 2024 - MAR 2026

- Designed, developed, and deployed the Catalog Release protocol smart contracts, a fully featured onchain music marketplace aimed to replace existing web2 marketplaces with feature parity.
- Architected REST APIs and backend services for the Catalog Release platform including search infrastructure (Meilisearch), audio transcoding pipeline, and fiat-to-crypto payment processing.
- Owned technical direction for backend systems serving the platform's entire user base

#### Interim Engineering Lead

FEB 2023 - OCT 2023

- Led a team of 4 engineers through a complete backend modernization, migrating from NodeJS to Bun, improving response times and computational efficiency.
- Mentored junior engineers on code quality, architecture decisions and best practices.

#### Senior Software Engineer

JUL 2022 - JUL 2024

- Architected and launched Catalog Radio, a 24/7 live interactive internet radio service with HLS streaming, real-time backend services, and onchain listener interactions via smart contracts.
- Led infrastructure migration from Heroku to Railway, setting up CI/CD pipelines and reducing infrastructure costs while improving deployment velocity.
- Developed an internal iOS application, using Swift/SwiftUI.

#### Software Engineer

NOV 2021 - NOV 2022

- Designed, developed and deployed Catalog's first in-house smart contracts, lowering upfront costs of onchain music for artists

## KUSF

#### Mobile • Web Developer / Production Director

AUG 2017 - JULY 2019

- Built the KUSF iOS app and maintained the station website. Managed the creek.fm streaming system and ran sound for live events.

## Foundation to Advance Jazz

#### iOS Developer •Contract•

MAR 2018 - OCT 2018

- Built an iOS streaming app for The Jazz Groove radio station with one of the early implementations of non-profit in-app donations via Apple Pay.

## EDUCATION

UNIVERSITY OF SAN FRANCISCO

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (2017 - 2020)