

DANIEL CHRISTOPHER

Full Stack Engineer

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EXPERIENCE

Founder & Developer

NXTBEAT 03/2025 - Present Washington, DC

- <https://nxtbeatapp.live> (coming soon)
- Single-handedly shipping a **React Native** app connecting music producers, engineers, artists, and labels for industry networking.
- Built a fully decentralized P2P architecture with **Node.js**, **Hypercore** and **Hyperswarm**, removing the need for central servers.
- Developed an **in-app wallet** with **on-chain** integrations for secure peer-to-peer **crypto payments**.
- Implemented an app-specific chain using **CometBFT** for micropayments and licensing, with **mobile light clients** performing **stateless validation** via **Merkle proofs**.
- Integrated **Noir** and **MoPro** for efficient **ZK-SNARK** generation on mobile, enabling client-side rollups posted on-chain.
- Engineered low-level **AV Foundation** work and mobile-optimized **Rust**-based P2P streaming and high-performance networking.

DevOps Engineer

Green Threads 05/2025 - Present Remote

- Contracted for the **U.S. Department of Veterans Affairs**, building and automating cloud workflows on **Azure** and **AWS** to support mission-critical applications.
- Architected scalable, fault-tolerant pipelines, implemented **CI/CD**, and standardized deployments with **Terraform** across distributed environments.
- Deployed and maintained **Azure Function Apps** and **automation runbooks**, streamlining serverless workflows.
- Monitored and analyzed Azure **logs** and **metrics** to ensure high system reliability and performance.

Senior Full Stack Engineer

Vartech 01/2024 - 05/2025 Remote

- Contracted for **Caterpillar Inc.**, architecting and implementing enterprise-scale data pipelines for supply chain management, handling millions of system-wide events per day with high reliability, fault tolerance, and real-time availability for downstream systems.
- Contracted for the **U.S. Department of Homeland Security**, designing and building enterprise-grade **Spring Boot** backend services and **ReactJS** frontends, ensuring scalable, secure, and maintainable internal applications for mission-critical workflows

Senior Full Stack Engineer

Independent Consultant 09/2021 - 12/2023 Remote

- Consulted **GloGreen**, transitioning their architecture to **Holochain** for a decentralized accounting layer.
- Built and co-led a team at Flowell, a Web3 startup; developed a **React Native** app, **NodeJS / NestJS** backend, and an in-house **Web3** game engine.
- Developed and deployed a **Solidity** token contract for a stealth Web3 client, enabling a token-gated marketplace with client-side minting in **ethers.js / Next.js**.
- Advised Elevar, an AI healthcare startup in Mexico: redesigned architecture to cut 50% of code, led hiring and onboarding, optimized Scrum, and developed a large-scale **React** app powered by a **NodeJS** backend.
- Consulted for multiple clients, building and maintaining production-grade **React** apps and managing large **monorepo** architectures with **Turborepo**, **Lerna**, and **Yarn Workspaces**.

SUMMARY

Senior Full Stack Engineer and systems architect with 10+ years of experience building large-scale **web and mobile applications**, modular backend **microservices**, and decentralized **P2P platforms**. Brings a systems-level mindset to **Node.js** development, with hands-on experience shipping production-ready, on-chain apps.

LANGUAGES

JS / TS	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
Java / Kotlin	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
Swift/Obj-C	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
HTML / CSS	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
Python	Native	<div><div></div><div></div><div></div><div></div><div></div></div>
C++	Advanced	<div><div></div><div></div><div></div><div></div><div></div></div>
Rust	Advanced	<div><div></div><div></div><div></div><div></div><div></div></div>
Go	Advanced	<div><div></div><div></div><div></div><div></div><div></div></div>

SKILLS

Web Skills

NodeJs • **Bun** • **Express** • **React** • **NextJS** • **Tailwind** • **Styled Components** • **NPM Package Development** • **Turborepo** • **Lerna** • **JS Monorepos** • **WebRTC** • **WSS** • **Jest** • **Babel**

Web3 Skills

P2P Apps • **Libp2p** • **IPFS** • **Nostr** • **Holochain** • **Hypercore** • **Hyperswarm** • **CometBFT** • **Smart Contract Development** • **ZK Roll Ups** • **Merkle Trees** • **Stateless Clients** • **WebAssembly** • **ethers.JS** • **Activity Pub** • **CRDTs** • **Solidity**

DevOps Skills

CI/CD Pipelines • **GH Actions** • **Terraform** • **Docker** • **Kubernetes** • **AWS** • **Azure** • **Logging & Monitoring** • **Horizontal & Vertical Scaling**

EXPERIENCE

Lead Mobile Engineer

Plank Labs 04/2019 - 09/2021 Bangalore, India (On Site)

- Led a team of 6 mobile developers, coordinating cross-platform development, and giving demos to high-profile media stakeholders.
- Built mobile **CI/CD pipelines** with **CircleCI** and **Fastlane**, reducing release friction and improving developer efficiency.
- Built and optimized complex **iOS build systems** with **Buck** (20+ modules) and **Bazel**, massively reducing build times and improving developer productivity.
- Leveraged **Android Feature Modules** to enable dynamic delivery, improve composability, and enforce separation of concerns in large-scale apps.
- Developed a few high-throughput, event-driven microservices (**Spring Boot**, **Spring Cloud Stream**, **Cassandra**, **Kafka**) to support mobile and web clients, processing millions of messages per day.

Software Engineer (Intern)

Holo.Host 09/2018 - 01/2019 Denver, Colorado (On Site)

- Collaborated with the **Holo** team and founders, providing early developer feedback on **Holochain** libraries.
- Built the first experimental bridge enabling **Holochain light clients** to run on **mobile devices**, allowing everyday users to participate in the network.
- Designed an experimental peer-to-peer semantic search engine leveraging agent-centric architecture, influencing ideas that later evolved into **Coasys**.

Co-Founder & CTO

Junto Foundation 09/2016 - 01/2019 NYC (On Site)

- Co-founded the first mobile app powered by **Holochain**, raised seed funding and a successful **Kickstarter**, which grew into a global community of thousands.
- **Website** (Now Flux Social)

Data Engineer (Intern)

Censible 05/2016 - 09/2016 Remote

- Built an internal ESG data pipeline in Python (**NLTK**, **NumPy**, **pandas**, **Beautiful Soup**, **Requests**) to scrape, process, and personalize stock market data, ensuring continuous updates and high data integrity for internal analytics.

Founder & Developer

Solvely 01/2016 - 10/2016 Washington, DC

- Shipped a #8 U.S. App Store **iOS app** (Education), drove viral growth via Twitter, built and scaled a Tornado server for thousands of requests per minute, and developed a Python **NLP/AI** pipeline (**spaCy**, **NLTK**, **NumPy**, **Word2Vec**) with optimized pattern matching and feature extraction.
- Featured on the front page of **Product Hunt**

Lead Mobile Developer

Baas Bikes 06/2015 - 05/2017 Washington DC (On Site)

- Led **iOS/Android** development for a **P2P** transportation startup, integrating custom Bluetooth hardware and **BLE APIs** for real-time device communication.
- Provided ongoing consulting and maintenance for years post-launch.

Co-Founder & Developer

IcyLabs, LLC 2014 - 2016 Washington, DC

- Co-developed custom e-commerce automation software adopted by **Yeezy Mafia**, a platform with millions of social media followers.
- Built automation scripts that evolved into **ElevateAIO**, a widely used reseller product, demonstrating event-driven, high-throughput task orchestration across distributed workflows.

SKILLS

Database Skills

Postgres • Redis • DynamoDB • LMDB • RocksDB •

Cassandra

Backend Skills

Microservices • Kafka • Kappa Architecture •

CQRS Pattern • Domain-Driven Design •

Distributed Systems • Actor Model • Elasticsearch •

Mmapped stores • Spring Boot • NodeJS • NestJS •

Go(Gin) • Python (Django & Tornado) • NLP •

Web Scraping

Mobile Skills

React Native • Expo • iOS SDK • UIKit / SwiftUI •

Bazel • Buck • CoreData • AVFoundation •

Secure Enclave • Background Services •

Offline-First Apps • Low Level Networking •

Protobufs • Android SDK / NDK • Android Lifecycle •

Android Media APIs • Architecture Components •

Jetpack Compose • Dependency Injection •

Clean Architecture • Multi Module Builds • MVP •

MVVM • SQL-Lite

Other Skills

Team Leadership • Scrum Management •

Recruitment • Interviewing • Product Research

INTERESTS

Web3 & Blockchain: Exploring ZK-SNARKs, stateless blockchain clients, mobile rollups, and application-specific chains; actively developing an L1 solution and researching architectures like Holochain, Holeyhole/Hyperswarm, and Nostr.