DANIEL CHRISTOPHER

Full Stack Developer

@ dpc99@pm.me   🔗 ibuildapps.live   📍 Washington, DC

EXPERIENCE

Founder & Developer

NXTBEAT   03/2024 - 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.
- 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.
- Built a fully decentralized P2P architecture with **Hypercore** and **Hyperswarm**, removing the need for central servers.
- 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 App**s and **automation runbooks**, streamlining serverless workflows.
- Monitored and analyzed Azure **logs** and **metrics** to ensure high system reliability and performance.

Senior Full Stack Developer

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 Developer

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 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.
- 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, distributed systems, and decentralized platforms. Brings a systems-level mindset to frontend architecture, owning complex React and React Native applications end-to-end.

LANGUAGES

Java / Kotlin	Native	●●●●●
Swift/Obj-C	Native	●●●●●
JS / TS	Native	●●●●●
HTML / CSS	Native	●●●●●
Python	Native	●●●●●
Go	Advanced	●●●○○
Rust	Advanced	●●●○○
C++	Advanced	●●●○○
Solidity	Advanced	●●●○○

SKILLS

Mobile Skills

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

Bazel • **Buck** • **CoreData** • **AVFoundation** •

Secure Enclave • **Background Services** •

Push Notifications • **Low Energy Bluetooth** •

Rest APIs • **Websockets** • **Android SDK / NDK** •

Android Lifecycle • **Android Media APIs** •

Architecture Components • **Jetpack Compose** •

Dependency Injection • **Clean Architecture** •

Multi Module Builds • **MVP** • **MVVM**

Web Skills

React • **NextJS** • **VueJS** • **Tailwind** •

Styled Components • **AngularJS** • **Typescript** •

NPM Package Development • **Turborepo** • **Lerna** •

JS Monorepos

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 Developer (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

Web3 Skills

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

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

Database Skills

Postgres • **Redis** • **DynamoDB** • **LMDB** • **RocksDB**

DevOps Skills

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

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, Holepunch/Hyperswarm, and Nostr.