

STOYAN DIMITROV

Staff AI & Protocol Architect | Engineering Leader | Distributed Systems

USA (Remote) | linkedin.com/in/stoyand | github.com/StoyanD

EXECUTIVE SUMMARY

Strategic Engineering Leader with 14+ years of experience architecting high-value distributed systems across Generative AI, Blockchain, and Mobile infrastructure. Expert in bridging the gap between cutting-edge LLMs and scalable user products. Proven track record of building autonomous browser agents and multi-chain ecosystems securing \$600M+ in TVL. Passionate about solving hard interoperability problems while driving engineering culture and operational excellence.

CORE COMPETENCIES

AI Engineering	Generative AI (Google Vertex AI, Gemini), RAG Pipelines, Prompt Engineering, Web Intelligence (Crawl4AI), Context Extraction.
Blockchain	Ethereum & EVM (Optimism, Base, Arbitrum, Polygon), Solana, Cross-Chain Bridging, Account Abstraction (ERC-4337), Smart Contract Security (Foundry, Hardhat).
Leadership	System Design, Protocol Architecture, Hiring & Mentorship, Technical Strategy, OpenSpec (Doc-driven dev).
Stack	Python (FastAPI, Pydantic), TypeScript/Node.js, Go, Rust (Cosmos-SDK), Solidity, Java/Kotlin/Swift.
Infrastructure	Google Cloud (Cloud Run, Vertex AI), AWS, Kubernetes, Docker, CI/CD (GitHub Actions), Firebase.

PROFESSIONAL EXPERIENCE

Independent Builder	Nov 2025 – Present
Independent AI Architect / Lead Developer	
<i>Building high-performance autonomous agents and intelligent content extraction systems.</i>	
<ul style="list-style-type: none">Intelligent Content Pipeline: Architected a full-stack AI service using FastAPI and Vertex AI to transform raw web data into structured knowledge. Integrated Gemini for real-time summarization and semantic tagging.Agentic Browser Extension: Developed a React-based Chrome Extension that leverages background workers and Firebase-authenticated side panels to provide contextual AI assistance	

directly in the browser.

- **Automated Data Ingestion:** Engineered a robust scraper-to-LLM pipeline using Crawl4AI with pruning strategies, reducing token consumption by 60% while maintaining context fidelity for RAG applications.
- **Architecture & Standards:** Implemented OpenSpec for documentation-driven development in a pnpm monorepo, ensuring rigorous API contracts and system alignment across Python and TypeScript services.

Eco Inc. (Remote)

Mar 2018 – Nov 2025

Staff Blockchain Engineer (Founding Engineer)

A fintech and blockchain protocol company focused on stablecoin infrastructure for an entirely new economy.

- **Eco-Solver Infrastructure:** Architected and led the development of a cross-chain solver system coordinating transaction fulfillment across 34+ EVM networks and Solana. System currently secures **\$600M+ in TVL**.
- **Engineering Culture & Hiring:** Built the web3 engineering vertical from the ground up. Designed the technical interview rubric and led hiring for frontend, backend, and Solidity roles.
- **Cross-Chain Liquidity:** Designed the *Eco-Routes* intent routing protocol, creating a unified liquidity layer for bridging assets between L2s (Optimism, Base, Mantle).
- **Infrastructure Scaling:** Built *Routes-Rindexer*, a high-performance off-chain event indexer (NestJS/Redis/Postgres) to handle massive scale data aggregation for on-chain events.
- **Account Abstraction:** Pioneered early adoption of ERC-4337, creating a novel "2D Nonce" utility to optimize multi-dimensional transaction encoding.

Independent Consultant San Francisco, CA

Aug 2017 – Mar 2018

Blockchain & Mobile Architect

- Advised early-stage startups on decentralized application architecture.
- Developed MVP mobile clients and Solidity contracts, bridging the gap between web2 UX and web3 infrastructure.

Tubi TV San Francisco, CA

Oct 2016 – Jun 2017

Staff Engineer (Android / Android TV / Cast Lead)

- **Team Leadership:** Led the Android and Chromecast engineering teams, serving 2M+ Monthly Active Users.
- **Architecture:** Redesigned the mobile streaming core (ExoPlayer) and modernized CI/CD pipelines to increase release velocity.

Omada Health San Francisco, CA

Aug 2014 – Oct 2016

Senior Mobile Engineer

- Scaled the flagship Android application for behavioral health, driving key patient engagement metrics.
- Integrated complex health data APIs (Google Fit, Samsung Health) and open-sourced internal UI libraries.

Bittheon Ltd

Jan 2014 – Jul 2015

Founder & CTO

- Founded a crypto analytics platform (pre-Ethereum explosion), building the Node.js backend and Android client to aggregate global exchange data.

Early Career

- **Aptina** – Android Software Engineer (2012 – 2013)
- **UCLA Biophotonics Lab** – Development Engineer (2010 – 2012)

EDUCATION & PATENTS

- **University of California, Los Angeles (UCLA)** – B.S. in Electrical Engineering (Biomedical Option) – 2005–2010
- **U.S. Patent Holder:** Portable Rapid Diagnostic Test Reader

INTERESTS

Cycling, freediving, spearfishing, and kayaking.