

SUMMARY

Self-taught engineer shipping across Web3, full-stack, and systems. Built a from-scratch OP-Stack L2 (chain, bridge, explorer), production DeFi / Discord / SaaS work on Upwork (13+ jobs, multi-year), and a public 3-year C / GPU roadmap with standalone C11 libraries. Equal parts contracts, APIs, and tooling.

SELECTED WORK

Veltrix L2 — modular OP-Stack rollup (chain, bridge, explorer, faucet)

2026

Solidity · Foundry · OP Stack · React · Vite · ethers

- Sepolia ↔ Veltrix bridge over OptimismPortal / L2ToL1MessagePasser; UI resolves the full withdrawal lifecycle.
- Deployed native ERC-20 VEL, genesis config, Docker devnet orchestration, ops runbooks.

DeFi & cross-chain tooling

2025–2026

Solidity · Hardhat · Mayan SDK · DFNS · Solana · Tron

- **ShineSwap**: constant-product AMM with on-chain swap history indexed from Swap events on Sepolia.
- **Mayan → DFNS forwarder**: deposit → Mayan quote → DFNS sign+broadcast → USDC to Request.Finance (ETH, SOL, BSC→ETH).
- **FriendlyMinter** — Solana cNFT minting platform.
- **Push Stakes** — on-chain casino with operator-controlled game wallet.
- **TRON USDT transfer DApp** — React + Node/Express MVP for a client.

DevObservatory — developer observability platform

2026

FastAPI · SQLAlchemy · Next.js 15 · RabbitMQ · Postgres · Redis · MinIO · Docker

- Async ingest: client → API → RabbitMQ → worker → Postgres; Next.js BFF with httpOnly JWT cookies; orgs, per-project API keys, rate limiting, Alembic.

Full-stack SaaS & real-time systems

2025–2026

React · Next.js · TypeScript · Node · Express · MongoDB · PostgreSQL · WebSocket

- **Case Management** — React/TS + Node/Mongo, RBAC, GridFS, deployed on Render.
- **PFIMS** — MERN, JWT, dashboards, budgets, reports.
- **CMMS** — Node/Express backend + Java desktop client over WebSocket with JWT; app-blocking + website filtering.
- **Easy File Share** — QR pairing + WebSocket cross-device transfer.

Discord & community bots (Upwork + personal)

2022–2026

Python · discord.py · Java · JDA · Node · discord.js

- Modular cogs (discord.py): verification, moderation, economy, starboard, RSS feeds.
- JDA slash-command suite for *Syndicate's Den* casino (six games, persistent wallets).
- Upwork 5.0s: email-verification bot, TG→Discord migration, voice-chat LLM integration.

gpu-engineering — 3-year C / GPU curriculum

2025–2026 (ongoing)

C11 · POSIX · Assembly · Make · GitHub Actions

- Public roadmap: toolchain, memory, x86-64, stack/heap, valgrind/ASan, virtual memory, fork/exec, pipes, custom allocator, mini shell.
- **pipe-shell** — POSIX shell, 62 assertions across 17 cases.
- **arena-allocator** — bump arena, 5–14x faster than malloc for small allocations.
- **bst-library** — generic BST, ~3.5M insert/s.

Trading & quant tools

2025–2026

Python · HMAC-signed REST · MT5 · OpenAI · Node

- **primebot**: Binance Futures Testnet CLI (MARKET/LIMIT/STOP_LIMIT/OCO/TWAP), 155 tests, 92% coverage, CI on 3.11/3.12/3.13.
- **discord-trader**: ICT A+ filter (MSS+OB+FVG+Lux+SpotGamma+FinBrain+macro), 1%-risk + 4% daily kill switch; **ninjabot-trader** Node CLI.

SKILLS

Smart contracts	Solidity, OpenZeppelin, Hardhat, Foundry, TronWeb, Solana basics, cNFT compression
EVM / L2	ERC-20/721, AMMs, proxy patterns, OP Stack, OptimismPortal, L2ToL1MessagePasser, geth/op- geth, Docker
Frontend	React 18, Next.js (App Router), Vite, TypeScript, Tailwind, ethers, Wagmi, WalletConnect
Backend	Node/Express, FastAPI, JWT auth, WebSocket (ws/Socket.io), RabbitMQ + aio-pika worker
Data	PostgreSQL, MongoDB/Mongoose, Drizzle, Redis, GridFS, SQLite, SQLAlchemy/Alembic
Systems (C)	C11, POSIX (fork/exec/wait, pipe, dup2, mmap), x86-64 reading, ASan/valgrind/perf, Make, GitHub Actions CI
Python	asyncio, httpx, instagrapi, Typer/Rich, pydantic, cryptography, ruff, mypy, pytest, uv
Deploy / ops	Docker, Docker Compose, Render, Vercel, GitHub Actions, macOS/Linux, FastAPI/uvicorn

OPEN SOURCE

veltrix-l2 · veltrix-bridge · DeFi-Token-Swap-DApp · DevObservatory · cmms · gpu-engineering · pipe-shell · arena-allocator · bst-library · primeTrade-demo-bot
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