

Hassan Mango

Illinois, United States of America

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SUMMARY

Software Engineer specializing in high-throughput distributed systems and blockchain architecture, with a BSc in Computer Science, Minor in Finance, and a background in Machine Learning, Artificial Intelligence and Full Stack Development. Ranked top 0.1% globally for algorithmic efficiency (CodingKattis). Fluent in English/Arabic; conversational in Spanish/Portuguese.

SKILLS

Cloud/DevOps: Docker, Kubernetes, AWS/GCP, Kafka, Prometheus, CI/CD, Git

Backend: Golang, Rust, gRPC/protobuf, Node.js, WebSocket, PostgreSQL, SQL, Python, Scrappy/Playwright

Frontend: React/React Native/TypeScript, Next.js, Svelte, ThreeJS/WebGL, REST/GraphQL, TailwindCSS, CSS, Framer, Figma

WORK EXPERIENCE

Stockflow Dec 2024 - Present

Founder/CTO/Software Engineer Remote, USA

- Architected real-time trading surveillance system using the hollywood actor framework in Go, processing 50k+ events/sec via gRPC with <5ms P99 latency
- Wrote scripts to fetch and process real-time stock options data, enabling detailed financial analysis with trade sentiment
- Designed congressional trade monitoring system using Go, tracking 100+ lawmakers' disclosures in real time

Wajeez Nov2022 - March 2023

Software Engineer Intern Amman, Jordan

- Built React/TailwindCSS interfaces integrated with RESTful APIs for audio content delivery and user account management
- Participated in agile development sprints, contributing to the planning, execution, and review of software releases
- Enhanced user onboarding flows by implementing A/B testing strategies, improving authentication conversion rates by 18%

Clear Profits DM April 2021 - August 2022

Web Developer Illinois, USA

- Curated responsive Next.js and TailwindCSS web interfaces, boosted performance & engagement by 40%
- Implemented Docker & Kafka pipeline to automate website interaction data for converting insights and business intelligence
- Collaborated on scaling advertising, achieving significant engagement through optimized content and platform analytics

PROJECTS

Solana Token Aggregator CLI | Golang, Solana Blockchain

- Tracked 5000+ daily Solana token launches via REST APIs and Websockets; built latency-optimized alert system (<200ms)
- Implemented real-time monitoring of memecoin metrics to identify high-potential tokens early
- Built efficient data parsing algorithms to extract and filter relevant launch information

Crypto Wallet Distributor | Golang, Typescript, React, Solana Blockchain, Cryptography

- Engineered a fully-functional privacy-focused tool with an intuitive dashboard displaying source, destination wallets, safe wallet signing, transaction fees, and real-time confirmation status
- Implemented secure transaction routing system between frontend interface and secure backend protocols
- Created comprehensive transaction history and analytics dashboard for user reference

Gas Price CLI App | Rust

- Real-time Rust gas tracker command line interface; 99.9% uptime over 6 months

Chat to PDF Converter | TypeScript, OpenAI, Pinecone

- Leveraged OpenAI and Pinecone for advanced text processing and storage of vectorized tokens
- Implemented natural language processing to transform chat conversations into structured PDF

EDUCATION

- Bachelor of Science in Computer Science with Minor in Finance - Knox College, USA
- Key Coursework: Software Engineering, Machine Learning, Artificial Intelligence, Software Testing, DBMS
- Certifications: Automating Data with Python (Google/Meta/Coursera)