

# Artem Andreenko

Senior Software Engineer | Backend Systems | AI Infrastructure | Machine Learning  
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## SUMMARY

Senior Software Engineer with 12+ years building backend platforms, AI infrastructure, distributed systems and ML products. Strong hands on background in Elixir, Rust, Python, Go, Kubernetes, AWS, GCP, event streaming, databases, LLM workflows, inference optimization and production reliability. Built systems supporting 30M MAU, 1M concurrent users, millions of requests per second and fraud detection in a 1B check per year domain. Seeking a full time software engineering role in the Los Angeles area.

## TECHNICAL SKILLS

Languages: Elixir, Rust, Python, Go, JavaScript, Node.js, SQL

Backend and Cloud: Distributed systems, microservices, REST APIs, event driven architecture, AWS Lambda, AWS Batch, GCP, Kubernetes, Docker, CI/CD, observability, performance tuning

Data and AI: Kafka, NATS, RabbitMQ, Spark, Hadoop, Redis, PostgreSQL, MySQL, MongoDB, Cassandra, Neo4j, Elasticsearch, PyTorch, TensorFlow, Ray, LLMs, Elixir NX, Elixir Membrane, agentic workflows

## PROFESSIONAL EXPERIENCE

### Founder and CEO | SentientWave Inc. | California | Mar 2023 to Present

- Founded and built an AI agent platform for multi agent collaboration, LLM workflows, tool calling, code generation, model routing and domain specific adaptation.
- Built an agentic harness for real time audio calls in the Matrix ecosystem using Elixir, Elixir NX, Elixir Membrane and Python, connecting live voice sessions with AI agents and shared workflow context.
- Implemented durable long running workflows with Temporal, plus context management, tool interfaces, recovery paths and workflow visibility across Elixir, Rust, Python, Go and cloud services.

### Principal Software Engineer | Mitek Systems | San Diego, CA | Jun 2020 to Mar 2022

- Designed and built Check Fraud Defender, a Go and AWS fraud detection product for a 1B check per year domain with APIs, batch processing, logging, alerting and high availability processing.
- Helped reach 98% fraud detection accuracy and improved serverless performance by 25% through profiling, optimization, AWS Lambda, AWS Batch and distributed workers.

### Software Engineer and Engineering Manager | Product Engineering | California | Apr 2019 to May 2020

- Built mobile apps, image processing services, on device and server side ML inference using Python, Go, TensorFlow, PyTorch and GCP; managed a six person engineering team through launch.

### Chief Infrastructure Officer | Prisma Labs | Remote | Jun 2016 to Apr 2019

- Built and led production infrastructure for large scale ML inference across GPU and CPU workloads, supporting 1M concurrent users and 30M MAU with Go, Node.js, Kubernetes, Kafka, Redis, Memcached and Elasticsearch.
- Launched backend services for a social image feed used by 15M MAU and internal training and annotation systems over 2 PB of datasets in S3 and Google Cloud Storage.

### Go Backend Software Engineer | Lazada | Southeast Asia | Aug 2014 to Jan 2015

- Rebuilt core ecommerce backend services from PHP to Go and built a MySQL proxy for cache invalidation across Redis, Memcached and Elasticsearch.

### Go Backend Software Engineer | Openstat | Remote | Jul 2012 to Jul 2014

- Built real time web analytics systems with Go, RabbitMQ, PostgreSQL, Hadoop and Cassandra, reducing latency by 40% and supporting millions of requests per second.

## OPEN SOURCE PROJECTS

Automata: privacy oriented agentic messenger based on Matrix (<https://github.com/sentientwave/automata>) | Meshbird: P2P mesh networking (<https://github.com/meshbird/meshbird>)

Autoresearch for macOS: ported Andrej Karpathy's autonomous ML research framework to Apple Silicon with PyTorch MPS optimizations; listed in the original repository as a notable fork (<https://github.com/miolini/autoresearch-macos>)

## PROFESSIONAL AFFILIATION

Member, Internet Society Interplanetary Chapter | <https://www.ipnsig.org/>