

# Tyler W.

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## Summary

Software engineer with 10+ years building Python, Rust, Go, Nodejs systems for web, blockchain, AI/ML, and high-throughput services. Ships clean, observable, secure code on AWS/GCP/Azure with Kubernetes and Docker. Hands-on experience building and operating AI systems, mining and validator networks, and incentive structures. Proven strength in developing AI-powered automation solutions for banking, e-commerce, and conversational platforms, spanning credit risk modeling, AI training pipelines, LLM fine-tuning, MLOps, and scalable cloud deployment.

## Core Skills

- **Languages:** Python, Rust, Go, TypeScript, Bash
- **AI/ML:** Generative AI, LLM Fine-tuning, Deep Learning, NLP, Model Optimization, Visualization
  - **Generative AI:** GPT-4, Claude, LangChain, RAG Systems, Prompt Engineering
  - **LLM Fine-tuning:** LoRA, QLoRA, RLHF, Supervised Fine-tuning, Parameter-Efficient methods
  - **Deep Learning:** PyTorch, TensorFlow, Keras, Hugging Face Transformers
  - **NLP:** Transformers, Sentiment Analysis, Intent Classification, Multi-modal AI
  - **Model Optimization:** vLLM, TensorRT, ONNX, Model Quantization, Knowledge Distillation
  - **Visualization:** Tableau, Power BI, Matplotlib, Plotly
- **Blockchain:** Substrate, Cosmos SDK, EVM/Ethereum, Hyperliquid, DeFi, Cross-chain, Consensus, Cryptography
- **Web/Frameworks:** FastAPI, Flask, Node.js, React/Next.js/Vue, Tailwind, Web3
- **Data:** Pandas, Polars, RocksDB, DuckDB, PostgreSQL, MongoDB, Vector DBs (Pinecone, Qdrant, ChromaDB, Pgvector), Apache Spark, Hadoop, Apache Kafka
- **Cloud:** AWS SageMaker, GCP Vertex AI, Azure ML
- **DevOps/Infra:** Docker/Compose, Kubernetes, Nix, Grafana, Prometheus, Cloudflare, S3, Secrets Manager, CI/CD, n8n, Zapier, Apache Airflow, MLflow, Kubeflow, Databricks, Weights & Biases
- **Security:** App/Net/Data security, mTLS, Key rotation, Container sandboxing
- **Strengths:** Algorithms, Performance optimization, Concurrency
- **Tooling:** SDKs, APIs, Dev environments, Cursor, GitHub Copilot
- **Communication:** Product growth/roadmap, cross-team collaboration, relationship building
- **Research:** Data-driven investigation and guidance

# Work History

## Software Engineer / Subnets Miner — Affine, Templar

*Decentralized AI Training Network | Remote (Jan 2025 - Present)*

- **Stack:** PyTorch, Hugging Face, Reinforcement Learning (DAPO / GRPO), OpenSpiel, Docker, Affinets, DeepSpeed, LoRA, Unsloth, BitsAndBytes, Weights & Biases, H100 GPUs
- Trained reasoning-focused LLM agents using Supervised Fine-Tuning (SFT) and Reinforcement Learning (RL) in a decentralized mining environment.
- Built SFT datasets via knowledge distillation using GPT-5.2, o4, and DeepSeek-R1 as teacher models.
- Fine-tuned Qwen 4B / 8B / 30B models for reasoning, code, and logic tasks.
- Applied DAPO (advanced GRPO) for stable RL training against MCTS-based game agents in OpenSpiel environments.
- Curated balanced game evaluation sets to ensure meaningful performance differentiation.
- Generated high-quality training trajectories using MCTS self-play and reward-based filtering.
- Used Affinets (Docker-isolated execution) for secure, reproducible multi-backend evaluations.
- Optimized large-model training with LoRA, 4/8-bit quantization, Unsloth, and Flash Attention 2.
- Scaled distributed training across multi-H100 GPUs using DeepSpeed ZeRO-3 and BF16 precision.
- Tracked experiments, metrics, and model improvements with Weights & Biases.

## Software Engineer — Kaito (AI-Powered Crypto & Web3 Research Platform)

*AI Research & Analytics | Remote (Feb 2023 - Dec 2024)*

- **Stack:** Python, FastAPI, PostgreSQL, Redis, Elasticsearch, PyTorch, Hugging Face, OpenAI/LLM APIs, LangChain, Pandas, NumPy, Docker, Linux
- Built data pipelines to collect and process crypto, Web3, and social data for research and analysis.
- Developed services to extract, summarize, and rank information from news, social platforms, and on-chain sources.
- Implemented engagement and influence scoring based on content quality and relevance.
- Built APIs and dashboards used by research, trading, and marketing teams.

## Software Engineer — Injective Labs

*Decentralized Trading Platform (Orderbooks & Perpetuals) | Remote (Jan 2021 - Dec 2022)*

- **Stack:** Go (Golang), Cosmos SDK, Tendermint, Docker, Kubernetes
- Worked on core blockchain modules powering Injective's decentralized orderbook and perpetual exchange.
- Implemented and optimized spot and perpetual market logic, including order matching, cancellations, settlements, and funding rates.
- Integrated oracle price feeds into market pricing, margin checks, liquidations, and funding calculations.
- Developed and maintained insurance fund mechanisms to cover bad debt, socialized losses, and extreme market events.
- Enhanced protocol security through invariant checks, edge-case handling, and hardened state transition logic.
- Optimized high-throughput trading performance by improving module interactions and on-chain execution paths.
- Collaborated on protocol upgrades, audits, and mainnet releases to ensure network stability and safety.

## Software Engineer / Infrastructure Engineer — Akash Network

*Decentralized Cloud Computing | Remote (Feb 2017 - Oct 2020)*

- **Stack:** Go (Golang), Cosmos SDK, Tendermint, Kubernetes, Docker, Helm, Akash SDL, Linux, Prometheus, Grafana, NGINX, Terraform, GPU Operators, NVIDIA Container Toolkit
- Worked on Cosmos SDK (Go) modules supporting providers, leases, pricing, and settlements.
- Ran GPU and CPU workloads on Akash for AI inference, training, and backend services using Kubernetes.
- Built and maintained container images and Akash deployment manifests for scalable workloads.
- Integrated pricing, lease tracking, and monitoring to improve reliability and resource usage.
- Added monitoring and autoscaling for long-running services across distributed providers.

## Education

Bachelor of Science (B.S.), 2016 – Computer Science

The University of Texas at Dallas (Aug 2012 – May 2016)