

Andy SUSTIC

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SUMMARY

Crypto Infrastructure and Software Engineer with 8 years of experience building and operating production systems across blockchain networks, bare-metal environments, and cloud infrastructure. Deep experience deploying validators, RPC nodes, high-availability staking systems, and protocol integrations across Solana, Ethereum, and ICP. Skilled in Linux, Terraform, Ansible, Docker, GCP, Python, TypeScript, Bash, Grafana, Prometheus, and AI-assisted development workflows.

TECHNICAL SKILLS

Blockchain: Solana validators and RPC, Ethereum, ICP, staking infrastructure, Jito BAM, Jito TipRouter

Infrastructure: Linux, bare metal, Terraform, Ansible, Docker, AWS, GCP, GKE, Kubernetes, high availability, CI/CD

Languages: Python, Bash, Go, TypeScript, JavaScript, Rust, Solidity, SQL

Observability and Data: Grafana, Prometheus, Google Cloud Logging, Fluent Bit, PostgreSQL, Pandas

AI-assisted Development: Codex, Claude, Cursor, Hermes, MLX, Ollama, llama.cpp, LM Studio, open-weight model deployment

WORK EXPERIENCE

ParaFi Technologies

Software Engineer, Infrastructure | Remote | Aug. 2024 - Aug. 2026

Technologies: Linux, Ansible, Terraform, GCP, GKE, Kubernetes, Docker, Python, Bash, Go, TypeScript, JavaScript, SQL, Prometheus, Grafana, Google Cloud Logging, Fluent Bit, Latitude (bare metal), GitHub (automated code review and checks); Solana, Ethereum, ICP, Jito BAM, Jito TipRouter.

- Led the deployment and scaling of Solana validator infrastructure from testnet to mainnet across bare-metal servers in a dedicated data center, maintaining uninterrupted operations since Q2 2025 and managing approximately 184,000 SOL in delegated stake at peak.
- Secured acceptance into the Solana Foundation Delegation Program and independent staking programs through sustained validator performance and operational reliability.
- Designed and implemented an active-passive validator failover system on Linux using Bash and Ansible, with automated health checks for vote lag, missed slots, and node health, enabling rapid failover to a hot standby.
- Integrated Jito's BAM client and operated infrastructure as a node operator in the Jito TipRouter Node Consensus Network.
- Deployed and operated a standalone public Solana RPC node on Latitude bare metal, using Linux, Bash, and Ansible for management and Grafana and Prometheus for monitoring.
- Automated validator and RPC deployments with Ansible; managed Kubernetes workloads on GCP and Terraform-managed GKE, routing security-focused infrastructure and workload logs through Fluent Bit into Google Cloud Logging.
- Built Grafana dashboards and Prometheus-based monitoring and alerting for vote credits, validator performance, cluster health, and infrastructure availability.

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- Led the end-to-end onboarding of ParaFi Technologies as an ICP node operator, coordinating technical, operational, legal, and documentation requirements.

Propelus

DevOps Engineer, SRE Team | Remote | Jan. 2023 - Jan. 2024

Technologies: Ansible, custom CLIs, Pulumi, AWS EC2, GitHub Actions, Slack, Windows, TypeScript, Node.js, Grafana, Elastic APM, Splunk, New Relic.

- Supported on-premises and AWS EC2 deployments using Ansible and custom CLIs, later adopting Pulumi for infrastructure automation.
- Investigated and resolved infrastructure, deployment, and application issues using Grafana, Elastic APM, Splunk, and New Relic.
- Ran existing GitHub Actions workflows, coordinated releases through Slack, and performed manual database releases on Windows.
- Developed TypeScript and Node.js tooling to refresh infrastructure inventory used by observability platforms.
- Drove adoption of New Relic across the SRE team and helped standardize monitoring workflows.
- Participated in on-call support for production services and assisted engineering teams during customer-impacting incidents.

Figment

Systems Developer | Remote | Oct. 2021 - June 2022

Technologies: Python, Pandas, Beautiful Soup, PostgreSQL, Metabase, Docker.

- Developed Python ETL pipelines for internal operational data, blockchain transactions, and staking datasets.
- Built a self-hosted KPI dashboard proof of concept using Metabase and PostgreSQL in Docker, enabling engineering teams to monitor operational and business metrics.

IHS Markit (S&P Global)

Software Engineer (DevOps Tool Developer) | Boulder, CO | Sept. 2019 - April 2021

Technologies: C#, JavaScript, AJAX, Bash, Chef, Windows, Linux, Prometheus, ELK, Grafana.

- Developed and maintained a C#-based internal platform for managing teams and executing DevOps operations, including server maintenance workflows, using C#, JavaScript, AJAX, and Bash.
- Extended existing Chef recipes and authored new recipes and health checks across Windows and Linux environments to identify configuration-management failures.
- Led the migration of web-application monitoring to a Prometheus, ELK, and Grafana stack, improving observability across supported applications.

Global Traffic Technologies

Software Engineer

| Oakdale, MN | July 2018 - August 2019

Technologies: MQTT, VerneMQ, Python, AWS Lambda.

- Upgraded the production MQTT platform to VerneMQ, supporting 10,000 concurrent bus-device connections transmitting location and timestamp telemetry for a globally deployed transit-priority system, including San Francisco.

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- Developed Python machine-learning, data-processing, and visualization tools using traffic data hosted in AWS to analyze Transit Signal Priority effectiveness.
- Built Python AWS Lambda functions for ingesting and transforming traffic data.

SELECTED PROJECTS

AgentVouch

Founder and Developer

| Remote | Feb. 2026 - Present

Technologies: Solana/SVM, Rust, Anchor, TypeScript, Next.js, PostgreSQL, Vercel, Solidity.

- Designed and built AgentVouch from scratch, an open-source reputation oracle and marketplace for AI-agent skills, deploying the public Next.js application to Vercel and the protocol to Solana devnet.
- Implemented a 25-instruction Solana Anchor program in Rust for agent registration, USDC-backed vouching and author bonds, skill listings and purchases, x402 settlement, dispute resolution, voucher slashing, refunds, and revenue distribution.
- Built the TypeScript and Next.js marketplace, agent-facing APIs, and CLI with wallet authentication, on-chain transactions, x402-gated downloads, Neon PostgreSQL persistence, versioned skill publishing, AI-assisted security scanning, and entitlement controls.
- Developed and tested a gated Solidity and Foundry implementation for Base Sepolia, plus GitHub Actions CI, Vitest, Anchor and Foundry test suites, generated clients, deployment tooling, database migrations, smoke tests, and operational runbooks.

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Local AI Infrastructure Lab

- Built and benchmarked local inference environments across a MacBook Pro (M1 Pro) and NVIDIA RTX 3090 using MLX, Ollama, llama.cpp, and LM Studio; exposed gpt-oss, Gemma 26B A4B, and Qwen 28B models through local endpoints and compared quantization, memory usage, performance, and deployment tradeoffs using LM Studio tooling and AI-assisted test workflows.

Catalyst

Founder and Lead Maintainer

| Remote | Nov. 2018 - Feb. 2021

Technologies: C++, Python, Node.js, Bash, Linux, Docker, Grafana, GitHub, Discord.

- Founded and maintained an open-source blockchain network, managing the codebase, Linux infrastructure, community operations, and contributor workflows.
- Built a block explorer, mining-pool infrastructure, Grafana monitoring, and other ecosystem tooling using C++, Python, Node.js, Docker, and Bash.
- Managed technical support and community communications across GitHub, Discord, and public forums.

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EDUCATION

University of Wisconsin - River Falls | River Falls, WI | Dec. 2018
Bachelor of Science in Computer Science & Information Systems