

Jeffrey Plewak | Software Developer

NC, USA (Remote)

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Professional Summary

Senior software engineer designing and operating production systems across AI platforms, cloud infrastructure, and compliance-critical environments. Background spans safety critical systems, cloud platforms, and AI workflows. Extensive design experience with emphasis on deterministic behavior, clear interfaces, and correctness. Enterprise development including JP Morgan, Lockheed Martin, as well as medium and small Startups.

Core Technical Skills

- Languages: Python, Java, C/C++, Go, TypeScript/JavaScript,
- Backend & APIs: FastAPI, Flask, Node.js (REST, gRPC)
- AI & Data Systems: LLM workflows, RAG pipelines, LangChain, LangGraph, NLP/OCR
- Cloud & Platform Engineering: AWS (EKS, EC2, Lambda, S3, RDS), Kubernetes, Docker, Terraform
- Algorithms & Performance: data structures, concurrency, latency and throughput optimization
- Reliability & Observability: OpenTelemetry, Prometheus, Grafana, distributed tracing
- Security & Compliance: SBOM/SCA, SLSA, artifact signing, audit-ready pipelines
- Engineering: Formal analysis of algorithms and data structures, including correctness, asymptotic complexity, and efficiency tradeoffs.
- Quantitative analysis, big-data telemetry, performance analytics, system metrics (latency, throughput, error rates), bond duration modeling, financial risk assessment, equity and fixed-income portfolio monitoring, investment insight pipelines, and compliance instrumentation.

Professional Experience

MSTRO.ai — Senior Software Engineer (Contract, Remote)

09/2024 – 11/2025

- *Designed and delivered AI platform components with deterministic orchestration and audit-friendly workflows. Python, Erlang, React.*
- *Built multi-agent LLM systems using LangGraph and LangChain with strict schemas, observability, and performance awareness.*
- *Implemented provenance and policy enforcement patterns for regulated AI use cases.*

- Unique algorithms and features for business domains.

MyGeo LLC — Python Developer, Member/Owner (Remote)

02/2024 – 09/2024

- Developed cloud-based SEO and communications platform integrating AI workflows with external APIs and services Softtr, make.com, flask, React. Full scope MVP to delivery.
- Built full-stack systems using Python, Node.js, React/Next.js, and MongoDB with automated ETL pipelines. Java, Python, React.
- Implemented ML/LLM orchestration using local and hosted models with reproducible pipelines. Perplexity, GPT, Ollama and personal models.

J.P. Morgan Chase — Senior Software Engineer (Platform / SRE)

07/2022 – 12/2023

- Built cloud native automation tools using Python, React, Flask, and AWS to support internal platform engineering and cross department outward customer and internal development efforts.
- Reduced deployment risk by automating environment validation across staging and production.
- Served as production SRE for global banking systems on AWS and EKS under regulated change controls for many environments.
- Pioneered automation and improvements in platform engineering

W2 Consulting (Nintendo, Raytheon, AWS) — Senior Consultant (Remote)

09/2019 – 03/2022

- Led modernization and migration programs for application porting.
- Developed ETL pipelines and backend services using Python, Java, and C++.
- Automated build pipelines, infrastructure provisioning, and documentation workflows on AWS.
- Heavy emphasis on leading, delivering, presenting, customer facing demos.

IBM Cloud — Senior Software Engineer

01/2019 – 09/2019

- Designed and operated Kubernetes-based microservices in Python and Go with high availability guarantees in SLO/SLA.
- Owned CI/CD pipelines and participated in SRE incident response and root cause analysis.
- Implemented observability and reliability practices improving incident detection and recovery.
- Helm, K8's, Splunk, Github. Custom bots for automation.

Lockheed Martin — Senior Software Engineer

01/2018 – 12/2019

- Developed real-time C++ systems for F-35 avionics in certification-aware environments.
- Automated build and test instrumentation pipelines improving compliance efficiency. DO-178 A/B. Automated vaseline and certifications. Major reduction in engineering hours.
- Achieved full statement and branch coverage with traceable artifacts and audit support via LDRA, greenhills, ada multi. C++/Python/Perl, Bash.

Fidelity Investments — Senior Python Engineer

04/2015 – 12/2017

- Built and maintained Django backend systems with rollback and profiling support.
- Refactored monolithic applications into service-oriented architectures, full stack, API integrations and load balancing applications (F5).

- *Improved development workflows and SDLC automation.*

Lockheed Martin — Software Engineer

06/2012 – 04/2015

- *Automated avionics simulations under DO-178 compliance requirements.*
- *Radar simulation TPQ-53 and F-35.*
- *Built internal tooling that reduced certification effort and improved traceability.*
- *Full Software development lifecycle and Agile transformation implementations.*

BAE Systems — Software Engineer Associate

05/2011 – 06/2012

- *Developed multithreaded radar simulations in Java/C++ and Java for Navy systems.*
- *Contributed across design, implementation, and baseline development.*
- *SDLC SCAMPI*

Education

B.S. Computer Science 2011.

University at Buffalo (SUNY), 08/2008 - 05/2011

GPA: 3.4