

Adam Siwiec

Full-Stack AI/ML Architect | Big Data, Multi-Cloud, Pentest, 1-Day PoC

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SUMMARY

AI/ML and data architect who builds custom models, Databricks platforms and secure cloud apps, and usually has a working proof of concept running within a day. Led the team that built an AI system predicting aircraft maintenance failures for the US Air Force Aging Aircraft program, was lead data engineer on a petabyte-scale SIEM at Capital One, and grew a software agency to about \$1M in annual revenue. Now runs Devrecated Solutions (agentic AI development) and OpenHat Security (penetration testing).

EXPERIENCE

Founder, Devrecated Solutions

Aug 2026 - Present

Dulles, VA

- Build AutoDevelop, a development system 3-4 years in the making. It captures business context from meetings, turns requests into tickets with acceptance criteria, and has AI agents implement them, with CI ship gates checking every change before it merges.
- Built public demos with AutoDevelop, including a healthcare marketing site made in under an hour from three prompts and a meeting transcript.

Founder, OpenHat Security

Aug 2026 - Present

Dulles, VA

- Sell a \$1,000 flat-price authorized penetration test aimed at finding a real vulnerability; remediation and code fixes are quoted separately.
- Wrote and open-sourced the scanners behind it: truffles scans every commit across GitHub repos for leaked secrets, and leakcheck finds exposed API keys on live websites.

Chief Technology Officer, Optic Truck Works

Jun 2022 - Present

Watchung, NJ | Largest FedEx reseller in the US (FreeTech client)

- Built and maintain the Optic Portal, a TypeScript business management app in a monorepo, with a vehicle-uploader microfrontend that deploys on its own.
- Shipped an in-portal AI assistant that answers spend and sales-tax questions from live portal data, shows each lookup it makes, switches charts, and lets owners edit its tools (releases 2.1.2 to 2.1.4, Oct 2026).
- Built the marketing website and customer-list PDF exports by customer tier; turn weekly client syncs into tracked tickets (15 from one sync: 8 bugs, 7 features).

Founder & CEO, FreeTech

Mar 2021 - Sep 2026

Dulles, VA | Software agency; Founder Mar 2021 - Dec 2024, CEO Dec 2024 - Sep 2026

- Founded the agency and grew it to about \$1M in annual revenue in 2024, running 10+ clients and 20+ engineers at the same time.
- Contracted engineering teams to clients including Skypath Analytics (US Air Force Aging Aircraft program), 42Chat and Optic Truck Works.
- Led multiple DoD data migrations and from-scratch Databricks builds for DOT transportation companies and telecom nonprofits.
- Built NLP, computer vision, statistical and LLM solutions with TensorFlow, LangChain, pgvector, MLflow and Databricks, fed by real-time Databricks ETL pipelines, for DoD, aerospace, healthcare and nonprofit clients.
- Shipped full-stack and SaaS apps (Next.js, React, Node.js, TypeScript, Tailwind, Docker, Firebase, Google Cloud) on a shared framework of templates, IaC, CI/CD and standard test suites used on every engagement.

Manager, Project Lead & Architect (PayJoy), Infinitive

Jan 2026 - Jul 2026

Ashburn, VA (remote)

- Led PayJoy's Snowflake-to-Databricks migration as lead architect and managed a team of 5 engineers; PayJoy is a Silicon Valley fintech with over \$500M in annual revenue.
- Built streaming ingestion pipelines with Databricks Auto Loader, Delta Live Tables and Fivetran.
- Set up Unity Catalog governance and led adoption of Lakehouse Federation, ABAC, Alerts, Lakebridge, Asset Bundles and Lakebase.
- Interviewed dozens of candidates for senior software and data engineering roles.

Senior Solution Architect & Software Engineer, 42Chat

Apr 2024 - Dec 2024

Draper, UT | AI chatbot startup (FreeTech client)

- Moved eight TypeScript/Node.js apps used by thousands of people from Heroku to Google Cloud (Cloud Run, Firebase) with zero downtime, cutting infrastructure costs about 80%, or nearly \$100k a year.

- Built Next.js microfrontends and a logging and analytics stack on BigQuery and Data Studio.
- Staffed and led the engineering team, managing both FreeTech and 42Chat engineers, and tightened the company's security.

Director of Data Engineering, Aging Aircraft Solutions (Skypath Analytics)

Nov 2023 - Apr 2024

Warner Robins, GA | US Air Force Aging Aircraft program (FreeTech contract)

- Led the team that built an AI system predicting aircraft maintenance failures from large, messy maintenance-event datasets, a long-standing problem for the program.
- Built a separate corrosion model and deployed both models with BERT in Advana, the DoD's Databricks environment; also built LLM proofs of concept now awaiting Air Force approval.
- Built custom apps on aircraft maintenance data, deployed on AWS GovCloud, that help maintainers and leaders save millions of dollars a year.
- Owned solution architecture, data engineering and software development company-wide, working under FIPS, CMMC and classified-information requirements.

Senior Consultant, Senior Data Engineer (Capital One), Infinitive

May 2021 - Dec 2023

Ashburn, VA | Consultant May 2021 - Mar 2023

- Lead data engineer on a SIEM tool (ELK, Kafka, Snowflake) ingesting petabyte-scale data; reworked the data pipeline architecture to save the client \$1M+ a year.
- Lead developer on a Snowflake-to-Databricks migration; wrote petabyte-scale Databricks pipelines and Python APIs for real-time data.
- Built monitoring, alerting and dashboards for self-service dataset registration across an organization of 50,000+ employees.
- Managed infrastructure with Terraform and Ansible, was security incident escalation lead on 24/7 on-call, and mentored new hires on ELK, Docker, Linux and AWS.

System Administrator, CyberSheath Services International, LLC

Jan 2021 - May 2021

Reston, VA | DIB managed security service provider

- Ran Azure and Active Directory for multiple companies with hundreds of users each, automated new-user onboarding, and kept systems FIPS and CMMC compliant.

OPEN SOURCE AND PROJECTS

- **truffles and leakcheck (Go, open source):** truffles finds GitHub repos at scale and scans their full commit history with TruffleHog for leaked secrets; leakcheck scans live websites for exposed API keys and tokens. github.com/openhat-security
- **runhug (Go, open source):** CLI that searches Hugging Face, recommends a GPU, and deploys a model on RunPod serverless vLLM or GCP Spot ILLama.cpp behind an OpenAI-compatible URL; packaged for 7 package managers. github.com/openhat-security/runhug
- **MCP server on Cloud Run (TypeScript):** Model Context Protocol server over SSE on Cloud Run, secured with Google IAM; 23 GitHub stars. github.com/adamsiwiec1/mcp-sse-authenticated-cloud-run
- **Upstream contributions:** Merged PRs to unslothai/unsloth (#9361, #9363), eugenioenko/ttt (#926, #951, #969) and term7/MacOS-Privacy-and-Security-Enhancements (#3).

EDUCATION

Georgia Institute of Technology, Atlanta, GA | MS, Computer Science (Machine Learning) | GPA 4.0

Jan 2026

West Virginia University, Morgantown, WV | BSBA, Management Information Systems | GPA 3.73

May 2021

CERTIFICATIONS

- TensorFlow Developer, TensorFlow Certificate Program (Dec 2023, valid to Dec 2026); Applied Tiny Machine Learning (TinyML) for Scale, Harvard Online (Jan 2023)
- Expired: Google Professional Data Engineer (2021-2023); Google Associate Cloud Engineer (2021-2024); AWS Certified Cloud Practitioner (2021-2024); Certified ScrumMaster, Scrum Alliance (2021-2023)

SKILLS

- **AI/ML:** custom model training and fine-tuning, NLP, BERT, LLMs, RAG, AI agents, computer vision, TensorFlow, LangChain, pgvector, MLflow
- **Data:** Databricks (Unity Catalog, Delta Live Tables, Auto Loader, Asset Bundles), Advana, Snowflake, Fivetran, Kafka, ELK, BigQuery, SQL
- **Cloud and DevOps:** GCP (Cloud Run, Firebase), AWS (incl. GovCloud), Azure, Cloudflare, Vercel, Docker, Terraform, Ansible, CI/CD
- **Languages and web:** Python, TypeScript, Go, Rust, C#, Shell; Next.js, React, Node.js, FastAPI
- **Security:** penetration testing, secret scanning, incident response, FIPS and CMMC compliance; Linux daily driver for 5+ years