

Phillip Wilkins

AI Solutions Engineer | GenAI, RAG, Data Platforms & Full-Stack AI Products

Kentucky · Remote-friendly | [linkedin.com/in/phillipwilkins](https://www.linkedin.com/in/phillipwilkins) | phillipwilkins.azurewebsites.net

Target Roles: AI Solutions Engineer | Generative AI Engineer | Azure AI/ML Engineer | Data & Analytics Architect | Full-Stack AI Engineer

PROFESSIONAL SUMMARY

AI Solutions Engineer and Senior Data Scientist with 15+ years delivering Azure analytics, BI, ML, GenAI, and enterprise software solutions for Microsoft and enterprise clients. **Specializes in RAG, AI agents, Azure OpenAI / Azure AI Foundry, Azure AI Search, Microsoft Graph, Python/FastAPI APIs, Synapse, Databricks/Spark, Power BI, SQL, Docker/Kubernetes, and full-stack AI product delivery.** Known for translating ambiguous business problems into secure, production-ready data products, executive dashboards, LLM workflows, and automation platforms.

CAREER HIGHLIGHTS

- **Enterprise AI delivery:** Built LLM APIs, RAG-oriented workflows, prompt orchestration, model evaluation, and AI-assisted automation for Microsoft/customer scenarios.
- **Cloud data platforms:** Delivered analytics solutions using Azure Synapse, Azure Databricks, Apache Spark, Azure Data Factory, Azure SQL, SSAS, Power BI, and data-quality pipelines.
- **Full-stack AI products:** Designed modern apps with FastAPI, React/Next.js, TypeScript, PostgreSQL, Redis/RQ, Docker Compose, CI/CD, and Azure deployment patterns.
- **Measured impact:** Reduced networking support call time from 45 minutes to under 5 minutes and cut a monthly reporting workflow to 15 minutes through automation.

TECHNICAL SKILLS / ATS KEYWORDS

GenAI / LLM Engineering: Azure OpenAI, Azure AI Foundry, OpenAI SDK, ChatGPT, RAG, AI agents, prompt engineering, function/tool calling, model routing, evaluation, guardrails, LangChain, Semantic Kernel patterns, MCP concepts

AI / ML / Data Science: Python, R, statistics, forecasting, anomaly detection, NLP, sentiment analysis, topic modeling, feature engineering, model selection, Azure ML, Azure AutoML, MLOps fundamentals

Data Engineering & BI: SQL, T-SQL, Power BI, Excel, SSAS, Azure Synapse, Azure Databricks, Apache Spark, Azure Data Factory, Azure SQL, Data Lake, ETL/ELT, data validation, SharePoint/M365 analytics

Cloud / APIs / DevOps: FastAPI, REST APIs, Docker, Kubernetes, Docker Compose, Redis/RQ, PostgreSQL, SQLAlchemy, GitHub Actions, Azure DevOps, CI/CD, secure enterprise integration

Full-Stack Product Engineering: TypeScript, React, Next.js App Router, Vite, Fluent UI, Node.js, Drizzle, Expo/React Native, C#, .NET, OData, pytest, Vitest, Testing Library

AI-Assisted Development: Cursor, VS Code, AI coding workflows, code refactoring, requirements translation, technical documentation, stakeholder demos

PROFESSIONAL EXPERIENCE

AI Solutions Engineer / Senior Data Scientist / Software Development Engineer / Contractor

Cloudfit Software (formerly Composable Systems LLC), Microsoft Vendor | Louisville, KY | 2009-2026

- Architected and delivered client-facing analytics, AI/ML, GenAI, and Azure cloud solutions for Microsoft and enterprise clients across healthcare, retail, manufacturing, government-related, and M365 engineering environments.
- Built Python/FastAPI LLM APIs and workflows across Azure OpenAI/OpenAI, Anthropic Claude, Google Gemini/Vertex AI, local/open-source LLMs, and LangChain/Semantic Kernel-style orchestration for completions, entity recognition, prompt workflows, code refactoring, and custom AI interactions.
- Designed RAG and AI search patterns using Azure AI Search, embeddings, query rewriting, content-safety/groundedness checks, Microsoft Graph metadata, and retrieval evaluation to improve answer relevance and operational trust.
- Created a reusable ML automation framework for feature engineering, model selection, tuning, validation, and testing using Deep Feature Synthesis, Recursive Feature Elimination, genetic feature selection, and Azure AutoML.
- Delivered NLP analytics in Databricks and Azure Synapse for sentiment analysis, key phrase detection, topic modeling, and customer/internal text intelligence.
- Deployed containerized analytics and AI services using Python, FastAPI, Docker, Kubernetes, REST APIs, Ollama/vLLM-style local model serving patterns, and time-series methods including Greykite/SilverKite and Prophet.
- Designed predictive analytics for Microsoft M365 engineering using Python, Azure ML, Azure SQL, Azure Data Factory, and SQL Server Analysis Services.
- Built BI, KPI reporting, monitoring, alerting, and incident-management platforms for Microsoft M365/O365 used by Fortune 500 and federal customers.
- Developed secure Azure, SharePoint, and OData workflow systems for Bing and enhanced SCOM integrations to pass operational data across domains.

Broadband Data Specialist I/II

Charter Communications | Louisville, KY | 2006-2008

- Supported commercial broadband networking for cable modems, routers, fiber, and related services.
- Built a VB.NET troubleshooting tool that reduced average network latency support call time from 45 minutes to under 5 minutes.

Software Developer Intern

Mercer Human Resource Consulting | Louisville, KY | 2005-2006

- Automated a VBA reporting process, reducing turnaround from more than one month to 15 minutes.
- Resolved SQL, VBA, and VB.NET defects that improved reporting accuracy and reduced manual effort.

SELECTED PRODUCT BUILDS & GITHUB PROJECTS

aon-app-guardian / App Guardian — Full-stack app and infrastructure monitoring platform with configurable collectors, Guard health rollups, and directive-driven agent escalation to email, chat, webhooks, ITSM, Azure DevOps, and Event Grid. **Tech:** React 18, TypeScript, Vite, Fluent UI, FastAPI, SQLAlchemy, PostgreSQL, Pydantic Settings, Playwright, psutil, Docker Compose, GitHub Actions, Azure AI Foundry/OpenAI SDK

ai-youtube-generator — Local-first content pipeline for long-form history/science videos and Shorts with review workflow, human approval gate, YouTube upload, publish checks, and QC. **Tech:** FastAPI, SQLAlchemy, RQ, Redis, PostgreSQL, Docker Compose, Next.js App Router, ffmpeg

spreadsheet-to-app — CSV/Excel upload and browser editing app with optional Azure OpenAI/Azure AI Foundry report ideas from sheet metadata, JSON or PostgreSQL storage, and Azure deploy helper. **Tech:** Next.js, Node.js, Drizzle, PostgreSQL, Docker, TypeScript, Azure OpenAI / Foundry APIs

food-calorie-app — MVP monorepo for photo upload, food analysis, meal CRUD, and nutrition totals by day/week/month/year with mobile client and integration scaffolding. **Tech:** FastAPI, Expo/React Native, SQLite, Azure Foundry, FatSecret OAuth, RevenueCat

fl-studio-plugin-organizer / fl-studio-organizer — Cross-platform Python desktop organizer for FL Studio plugin metadata, category/vendor/plugin tree previews, safe copy workflows, and Azure OpenAI-assisted category alignment to existing folders only. **Tech:** Python 3.10+, Tkinter/ttk, python-dotenv, Azure OpenAI

ai-job-application-generator — FastAPI MVP that generates ATS-optimized resumes, cover letters, and interview prep from a base resume and job listing. **Tech:** Python, FastAPI

ai-anywhere / photo-text-tts-reader — macOS and Gradio utilities for file/stdin previews, image/text workflows, Azure/OpenAI calls, ElevenLabs TTS, and audio assembly/playback helpers. **Tech:** Python 3.10+, OpenAI SDK, Gradio, ElevenLabs, Pillow, pydub, Tkinter, shell scripts

pw-website — Modern portfolio site ported from legacy ASP.NET MVC with Next.js frontend and FastAPI SMTP contact backend. **Tech:** Next.js 15, React 19, TypeScript, ESLint, FastAPI, pytest, ASP.NET MVC legacy reference

MCP / Cursor workspace tooling — MCP server descriptors and IDE workspace support files used to wire local AI/dev tooling and tool schemas. **Tech:** MCP JSON schemas, Cursor workspace plumbing

CERTIFICATIONS

- **Microsoft Certified: Azure AI Engineer Associate (AI-102)** - Azure AI services, Azure AI Search, Azure OpenAI.
- **Microsoft Certified: Azure Data Scientist Associate (DP-100)** - Azure Machine Learning, model training, deployment, and MLOps fundamentals.
- **Microsoft Certified: Azure Data Engineer Associate (DP-203)** - Azure data pipelines, storage, processing, and analytics solutions.
- **Microsoft Certified Solutions Developer (MCSD): Web Developer** - 70-480, 70-486, 70-487.

EDUCATION & TECHNICAL COMMUNITY

Bellarmine University — Bachelor of Science in Computer Engineering; minors in Mathematics, Physics, and Music Technology | 2000-2005

- Brown Scholar Leadership Program; Monsignor Treece Academic Scholarship; “I Have a Dream” Academic Scholarship.
- Louisville Azure Global Boot Camp organizer/speaker; SharePoint Saturday speaker; Louisville .NET and LouMug participant.