Benny Hartnett
Developer & AI Engineer
Public Trust

WORK EXPERIENCE

Lion Federal (Commercial)   **July 2025 – Present**
Developer/AI Engineer
- Built LionPro.ai (commercial continuation of USAID's CACCI AI) serving GovCon, VC, law clients; shipped multi-tenant RAG with function calling and document generation capabilities.
- Delivered government contract opportunity scouting and capture tool, generates RFI/RFP full document responses in formatted client letterhead using LLMs from client artifacts, API sourced data, and web crawling extracts.
- Implemented custom integrations & workflows using client requested APIs and custom built web crawlers.
- Stack: React + Tailwind, Python/Flask, MongoDB, AWS/Azure/GCP, Docker, Terraform, GitHub Actions.

Lion Federal (Department of Labor)   **May 2024 – June 2025**
Developer
- Developed new features and optimized existing functionalities within the Departmental E-Business Suite (DEBS) using C#, MVC, ASP.NET, and JavaScript.
- Efficiently resolved bugs and issues logged in Jira, improving the system's overall performance and user experience, using GitLab for version control.
- Developed and managed SQL queries and PowerShell scripts for scheduled jobs and automated tasks.

Lion Federal (U.S. Agency for International Development)   **Sep 2023 – October 2024**
Developer/AI Engineer
- Proposed (Directed Subcontract Award), architected, and built an LLM-based internal knowledge chatbot system powered by retrieval augmented generation utilizing MongoDB as a vector database with a Flask API backend running in ECS and a React frontend (MVC).
- Developed function calling integrations with external APIs and an LLM-based system to allow natural language requests to query real-time data, and render custom charts and graphs.
- Created multimodal ETL pipeline utilizing embeddings, vision, and large language models to enable semantic search across a wide variety of document types, including images, for RAG.

Lion Federal (GSA Office of Inspector General)   **Oct 2022 – Sep 2023**
Systems Engineer/Architect
- Planned and architected the migration of on-premises organizational Windows SMB file shares and home directories to Azure Files and OneDrive GCC.
- Migrated organizational email from IBM Notes Social Edition 9 to Exchange Online GCC.
- Provided systems administration/architecture guidance and PowerShell scripts to administrators.

Lion Federal (Commercial)   **May 2021 – Sep 2023**
Developer
- Developed various LLM-powered software using embedding, vision, and large language models with RAG and function calling capabilities for commercial customers and partners.
- Architected and developed high-impact technical solutions for clients including full-stack agile development of the LF Test Automation Framework, commercial IoT products, and financial/accounting systems.
- Partnership development (AWS, Microsoft, DataRobot, Ventera, and Pelatron Technologies) and individually authored federal proposals, resulting in $4M+ in awarded defense contracts (U.S. Army ARD/DPRR).

Lion Federal   **Mar 2021 – May 2021**
Software Engineering Intern
- Assisting in the development of a native version of the LF Test Automation Framework.
- Programming with C#, Ruby, Selenium, and Cucumber.
- Performed automation testing Amazon Web Services Device Farm using AWS SDK.

Tow Ninja   **Nov 2020 – Mar 2021**
Lead Full Stack Developer
- Developed Tow Ninja Web Application and Database.
- Utilized ASP.NET/C# and Twilio SMS API to create notification system.
- James Madison University Summer Accelerator Startup Cohort.

PROFICIENCIES

Languages & Frameworks:	Python, React, TypeScript, JavaScript, C#, ASP.NET, .NET MVC, Razor Pages, HTML, CSS, PowerShell, MS SQL, Terraform, Java, Bash, Selenium
Databases	MongoDB, MySQL, Microsoft SQL, DynamoDB, FAISS, ChromaDB
Technologies	Azure AI Foundry, AWS Bedrock, LangChain, LlamaIndex, Retrieval-Augmented Generation (RAG), AWS, ECS, Fargate, Lambda, CloudFront, API Gateway, EC2, S3, Azure, GCP, Microsoft 365 GCC, RESTful APIs, Windows Server, Amazon Linux, Raspberry Pi, ESP32, GitHub, GitLab, Jira, Docker, IBM Cognos

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CERTIFICATIONS

Amazon Web Services (AWS)
- Certified Developer - Associate   7/2022
- Certified Cloud Practitioner   5/2022

Microsoft
- Developer   2/2024
- Microsoft 365 Certified: Fundamentals   8/2022
- Microsoft Certified: Azure Fundamentals   7/2022

Hugging Face
- Fundamentals of MCP   5/2025
- AI Agents Fundamentals   4/2025

Data Robot
- Data Robot for Data Scientists   1/2022

Uplimit & OpenAI
- Building AI Products with OpenAI   2/2024

AWARDED PROPOSALS

Army DPRR – Information Technology Support Services   **July 2024**
Lead Proposal Writer on $13,094,625 prime award; drove win strategy, authored technical approach.

USAID – CACCI AI (Directed Subcontract Award)   **February 2024**
Co-proposal writer & engineer; wrote proposal documents, lead presentations, demoed, and developed prototypes for prospective government customers, leading to directed subcontract award of $250,000.

GSA OIG – IT Infrastructure Modernization (via DigiCloud Services JV) **October 2022**
Co-proposal writer on $439,980.15 JV's (DigiCloud Services) first prime award; contributed to technical volume and past performance; staffed as Computer Systems Engineer/Architect on contract.

Total awarded contract value: $13,784,605.15

EDUCATION

Computer Information Systems, James Madison University   **May 2021**
Cum Laude