Chester Bruce Harmon, PhD

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2017-Present, Freelance artificial intelligence and machine learning engineer

Engaged as AI and ML engineer with the following companies: IBM, HP, Boston Scientific, Keysight Technologies, OneMagnify, Cook Global, Databricks, Lockheed Martin, Northrop Grumman, SAIC, NSA, XTR, Brainitz, Sage Medical, and others to implement production solutions that include data analytics, database management, ML classification and regression, Hadoop and Spark implementation, AI and ML education and training, cybersecurity, and generative AI which included building from scratch and using frontier and open source large language models (LLMs), fine-tuning them, implementing retrieval-augmented generation (RAG), providing prompts, and building from scratch orchestrations of multi-modal AI agents as well as via LangChain, model context protocol (MCP), and vendor software development kits (SDKs) and APIs from Google, OpenAI, and Anthropic.

In those pursuits, I employed my skills in Python, R, C/C++, SQL, Rust, Java, and JavaScript; Hadoop and Spark; TensorFlow and PyTorch; bash and Powershell; AI and ML models.

Part of this time, I also served in the Department of Computer Science at the University of Denver as a professor and faculty director for the master's degree programs in cybersecurity and data science, which included AI and ML.

Prior to that, I served as professor and dean of engineering and computer science at Colorado Technical University from 2008 to 2016 where I introduced doctoral programs in data science and cybersecurity.

Prior to that, I held engineering and management positions at Lockheed Martin, HP, Synopsys, Rudolph Technologies, and KLA-Tencor.

My PhD is in electrical engineering with a minor in computer science from the University of Colorado, 1999.

I am a US citizen and once held DoD Top Secret and SCI clearances. I served 12 years as a scientist for the US Air Force Office of Scientific Research via the Air Force Reserve.

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