codecypher

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CAPABILITY STATEMENT

codecypher LLC is a small HUBZone certified business providing high quality, state-of-the-art software engineering services. Founded in 2023 and located in Knoxville, Tennessee, we focus on providing AI engineering, software engineering, and R&D services. We have the expertise needed to complete almost any software or hardware project.

CORE COMPETENCIES

Artificial Intelligence Engineering

codecypher offers *The AI Process* for solving real-world problems and the expertise needed to design, implement, deploy, and monitor state-of-the-art AI solutions.

- Generative AI (GenAI)
- Deep Learning
- Natural Language Processing (NLP)
- Computer Vision (CV)
- Business Intelligence and Big Data
- Distributed data analytics and processing
- High Performance Computing (HPC)
- MLOps, Containers and Orchestration, Virtual Machines (VMs)
- Autonomous Vehicles (AV) and Unmanned Aerial Vehicles (UAV)
- Data Analysis, Modeling, Management, and Migration

Software Development and Engineering

codecypher applies an agile methodology and advanced programming skills in developing versatile solutions across various programming languages, software tools, libraries, and frameworks for a variety of software and/or hardware solutions.

We have the skills and expertise needed to support our customers' missions and streamline operations by creating new applications or modernizing legacy applications using the latest technology.

- Custom Software Development
- Database and Applications Development
- Web Application Development
- DevOps, CI/CD
- Cloud, Microservices, and Distributed Applications Development
- Data Warehouse Solutions
- Mobile Applications
- Portal and Dashboard Solutions
- Automated Workflow Solutions

PAST PERFORMANCE

- Advanced Catalyst Systems
- Oak Ridge National Laboratory (ORNL)
- Edward Jones retirement consultants

DIFFERENTIATORS

- 25+ years of software engineering experience
- Staff has excellent academic and industry credentials
- The *AI Process* for success in solving real-world problems

PRIMARY NAICS CODES

541511: Custom Computer Programming Services
541512: Computer Systems Design Services

541715 Research and Development in the Physical, Engineering, and Life Sciences

POINT OF CONTACT

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Jeffrey Holmes has an MS in Applied Mathematics, MSCS in Artificial Intelligence, IEEE Senior Member, numerous industry certifications, and many technical articles published.

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