



EntropyZero Consulting

UEI DY99JHPK2J89

CAGE 4TV2

NAICS

541511 541512

541513 541519



CAPABILITY STATEMENT

Founded in 2005, **EntropyZero Consulting, LLC** is a boutique software engineering firm specializing in scalable, secure, high-performance systems for complex enterprise needs. Our expert consultants turn challenges into innovative, high-impact solutions.

CORE COMPETENCIES



Software Engineering & Application Development

- Full-stack development using C# and Python
- System architecture design and deployment
- Cloud architecture design and deployment
- Cloud operational management and cost control



Data Science & Analytics

- End-to-end data engineering
- Data management, including data lake, database, and warehousing design
- Data visualization
- Model application and unstructured data analysis



Artificial Intelligence & Machine Learning

- Strategic model selection and implementation
- Model training using major frameworks
- Model deployment with performance metrics monitoring and bias drift detection
- Model augmentation to optimize output



DevOps & Delivery

- DevSecOps CI/CD pipeline architecture
- DataOps implementation
- Proven leadership in Agile methodologies



Performance Optimization

- Application and database performance tuning
- Cloud performance and best practice analysis

DIFFERENTIATORS



Expertise bridging data science and software development



Deep understanding of machine learning and AI



Proven success in leveraging technology and data to solve complex business problems



Commitment to team building and employee growth

SOLUTIONS

EntropyZero's custom built HybridBus is a hybrid architecture combining RabbitMQ streams and queues for stateful, long-running business workflows, combining the reliability of message queues with the flexibility of event streams to enable complex enterprise workflows. The platform integrates .NET and Python services in a single unified pipeline, with built-in resilience, full observability, and human-in-the-loop approval workflows.



KEY CLIENTS



ankura



U.S. Citizenship and Immigration Services



MSRB



www.ent0.com



info@ent0.com



205 Van Buren St, Ste 120, Herndon, VA 20170