

CUSTOM APPLICATION DEVELOPMENT

The term “Custom Application Development” covers a broad swath of technologies and software development methodologies. At Technica, this includes programming languages, tools, and an Agile development mindset. Additionally, Technica’s approach to Custom Application Development goes beyond creating one app. We work to integrate the app with the enterprise as a whole, including working with Continuous Integration (CI)/Continuous Delivery (CD) pipelines and the latest DevSecOps (Development/Security/Operations) principles. We bake security in from the beginning, thinking not just how the app will function now— but how it will be deployed and continuously updated and improved indefinitely. The core tenet of everything we do at Technica is to use the power of state-of-the-art technologies to unleash innovation within your enterprise.

AGILE SOFTWARE DEVELOPMENT

Full-cycle development using Technica’s Agile software methodology and an eye towards modern DevSecOps principles for on-premise and cloud deployments.

ENTERPRISE ARCHITECTURE & STRATEGIC CONSULTING

Define the investment options, technology stack, timeline, total cost of ownership and the ongoing maintenance required to launch and sustain an on-premise or cloud solution.

INTEGRATION

Establish integration points with open-source software, cloud platforms, and third-party APIs.



DevSecOps

Comprehensive infrastructure management for application workloads via Microservices Architecture (MSA), traditional virtual machines and containerization. Implementation of application lifecycle management and Continuous Integration (CI)/Continuous Delivery (CD), including working with Kubernetes.

CLOUD SERVICES

Whether your cloud services provider is AWS, Azure or Google, Technica provides cloud infrastructure services, cloud design patterns, and strategies to maximize benefits for solutions hosted and built for the cloud.

EMERGING TECHNOLOGIES

New technologies are constantly changing the technology landscape. With Technica Labs’ Independent Research & Development (IR&D) organization, we evaluate the latest technologies from a vendor agnostic, lock-in avoidance mindset. We then blend best-of-breed applications and solutions for our clients.

MOBILE DEVELOPMENT

Technica possesses experience in the range of development from pure native to cross-platform apps, we help you select the best choice for your project’s requirements.

TECHNICA AREAS OF EXPERTISE

Software Development

- Custom Software Development
- Enterprise Software Development
- Cloud Application Development
- Web Application Development
- Mobile Application Development
- System Integration

Advanced Technologies

- Artificial Intelligence, Machine Learning, and Deep Learning
- Internet of Things (IoT)
- Data Analytics & Visualization

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TECHNICA AREAS OF EXPERTISE (CONT.)

Infrastructure

- DevSecOps
- Cloud Infrastructure
- Hybrid Infrastructure
- On-Premises Infrastructure
- Migration
- Integration

Maintenance & Support

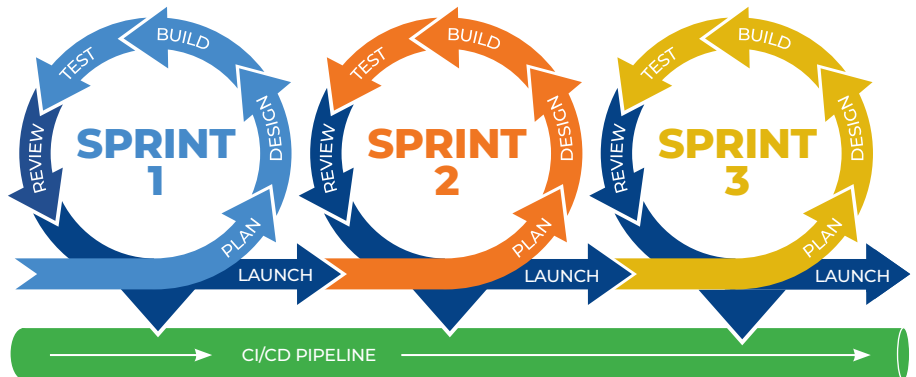
- Application Support
- Infrastructure Support
- Customer Support

Advisory

- Digital Transformation
- Cloud Strategy Consulting
- Enterprise Architecture Consulting

TECHNICA'S AGILE METHODOLOGY & PROCESS

Our approach to application development incorporates a tailored Agile Methodology. The process tailored to work with both traditional government funding mechanisms (that tend to be waterfall oriented) and non-traditional mechanisms, like Other Transaction Authority (OTA) agreements. Technica's process enables flexibility, adaptability, and extensibility—all while keeping laser-focus on the ultimate goal: a successful application.



Each Sprint retrospective is an opportunity in which we continually examine and ask about future possibilities or needs. Our process allows us to move from ideation to prototyping in weeks—not years.

SOFTWARE DEVELOPMENT STACK

Programming Languages

- Python, Java, C++, C, C#, PHP, Groovy, Ruby, Javascript, HTML5, SQL, NoSQL, GQL

Operating Systems

- Linux, Windows, iOS, Android, Solaris, Numerous Embedded OS's

Frameworks

- D3.JS, CSS3, Material Design, jQuery, Angular, React, Bootstrap

Libraries

- TensorFlow, Keras, Theano, PyTorch, TFLite, NumPy/SciPy

Modules/Toolkits

- Linux Kernel, SE Linux, CUDA

DevSecOps

- Kubernetes, SaltStack, Docker, Singularity, OCI-Compliant Containers, GitHub/GitOps

Concepts

- Object-Oriented Programming, Functional Programming, Microservices/Distributed Architectures, Multi-Agent Environments, Fog Computing, IAAS, PaaS, Serverless Programming (FaaS), Multi-Cloud, Hybrid-Cloud, DoD/IC Accreditation, Agile/Scrum Methodologies, AI/ML/Deep Learning, Natural Language Processing (NLP)

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Technica Corporation, founded in 1991, provides high-end system engineering services to Defense, Intelligence, Law Enforcement, and Federal civilian agencies. The company specializes in systems engineering; integration and testing; cybersecurity; and product development, deployment, and support. Technica invests heavily in R&D and is leveraging big data, machine learning, artificial intelligence, blockchain technology and high-performance computing to support its customers. For more information, please visit www.technicacorp.com

