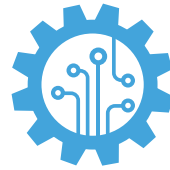


CORE COMPETENCIES



ADVANCED SOFTWARE DEVELOPMENT

Intelligent Interfaces, Microservices, Agile SDLC, Modular Design, Software Modernization, Code Conversions



PRODUCT AUTOMATION

Artificial Intelligence, DevSecOps, Continuous Integration/Continuous Delivery, Data-Driven Automation Systems, GoCD, Jenkins



AEROSPACE AND DEFENSE

Ballistic Missile Defense Systems, Remote Monitoring and Preventative Maintenance, Mission-Critical Software Development



CLOUD COMPUTING

GCP, AWS, Azure, Pivotal, Build Automation, Platform-as-a-Service, Infrastructure-as-Code



MINORITY-OWNED BUSINESS



MISSION STATEMENT

Our mission is to simplify the delivery and improve the utility of software products for our customers. We believe in leveraging automation to achieve unrivaled speed and quality as we continue delivering new features that evolve ideas into smart technologies.



CAPABILITIES PROFILE

Zaden Technologies is an all-remote Minority-Owned Small Disadvantaged LLC incorporated in Alabama with primary offices in Huntsville, AL, and Evanston, IL. Zaden Technologies specializes in delivering software and engineering consultancy services for defense and space systems. We offer industry-leading software development and technology products utilizing advanced methodologies such as Artificial Intelligence, DevSecOps, Agile product development, active system monitoring, and cloud computing.

NAICS CODES:

511210, 541330, 541511, 541512

DUNS: 117350936 CAGE CODE: 8GNP8

**DCAA Compliant
Accounting Systems**

**NIST 800-171 Compliant
Information Systems**



Zaden Technologies is a Minority-Owned Business headquartered in Huntsville, Alabama

Contact Information:

Valentine Nwachukwu

CEO & President

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Email: valentine.nwachukwu@zadentech.com

www.zadentech.com



SOFTWARE SPECIALIZATIONS

DEVSECOPS

containerization, orchestration, cloud-native, continuous integration, continuous delivery, continuous deployment, canary & dark releases, shadow deployments, A/B testing, blue/green deployment, circuit breaking, mutual TLS, fault injection, traffic tracing, and active monitoring.

FULL STACK SOFTWARE DEVELOPMENT

microservices, API design, API gateway, Strangler pattern, software modernization, services mesh, model-based automatic code generation, message interfaces, and modeling & simulation.

UX/UI

mobile-first design, user persona, UI heatmaps, API funnel analysis, A/B testing, and heuristic evaluation.

EMBEDDED SYSTEMS DEVELOPMENT

mission-critical, flight-critical, wearables, Internet Of Things, DO-178C, MIL-STD-498, RTOS, 1553 bus, and VxWorks.

AI/ML

deep learning, computer vision, predictive maintenance, reinforced learning, back-propagation, NLP and random forest, k-nearest neighbors, radar target tracking and classification, leave-one-out cross-validation, bayesian networks.

SOFTWARE DEVELOPMENT EXPERTISE

LANGUAGES

Java, C++, C#, Python, Ada, Groovy, JavaScript (i.e., ReactJS, NodeJS), HTML, CSS, Matlab, Go

IDE

Visual Studio Code, IntelliJ, Eclipse, Gnat Programming Studio (GPS), WindRiver Workbench, Gitpod, Theia

FRAMEWORKS

Spring Boot, React, Electron

CI/CD

GitlabCI, Jenkins/BlueOcean, TravisCI, GoCD, Artifactory, Nexus, Docker Hub, Docker, Kubernetes, Gradle, Maven, CMake, Npm, Yarn

AUTOMATED DOCUMENTATION

Javadoc, GNATdoc, Swagger, Doxygen

DEVELOPMENT ENVIRONMENT

Windows 10, Unix, Linux (Ubuntu, Debian, Redhat Enterprise 6/7/8), VxWorks 7/653, AWS, GCP, Azure

TESTING

JUnit, GoogleTest, Mockito, TestNG, Cucumber, WireMock

QUALITY + SECURITY

SonarQube, Veracode, Fortify, JaCoCo, Gcov/Lcov, Gprof, Valgrind, CppCheck, Coverity, Anchore, OpenSCAP, RATS, Nexus Lifecycle, Java Mission Control

PRODUCTION MONITORING

Hotjar, Istio, ELK stack, Prometheus, Kiali, Jaeger, Graphana, Filebeat, Splunk

VERSION CONTROL SYSTEM

Git, Gitlab, Github, Bitbucket

CONFIGURATION MANAGEMENT

Gradle, Ansible, Packer, Vagrant, Chef

AGILE PROCESS

Atlassian Suite (Jira, Confluence, Bitbucket), Gantt



PRODUCT DESIGN AND DEVELOPMENT

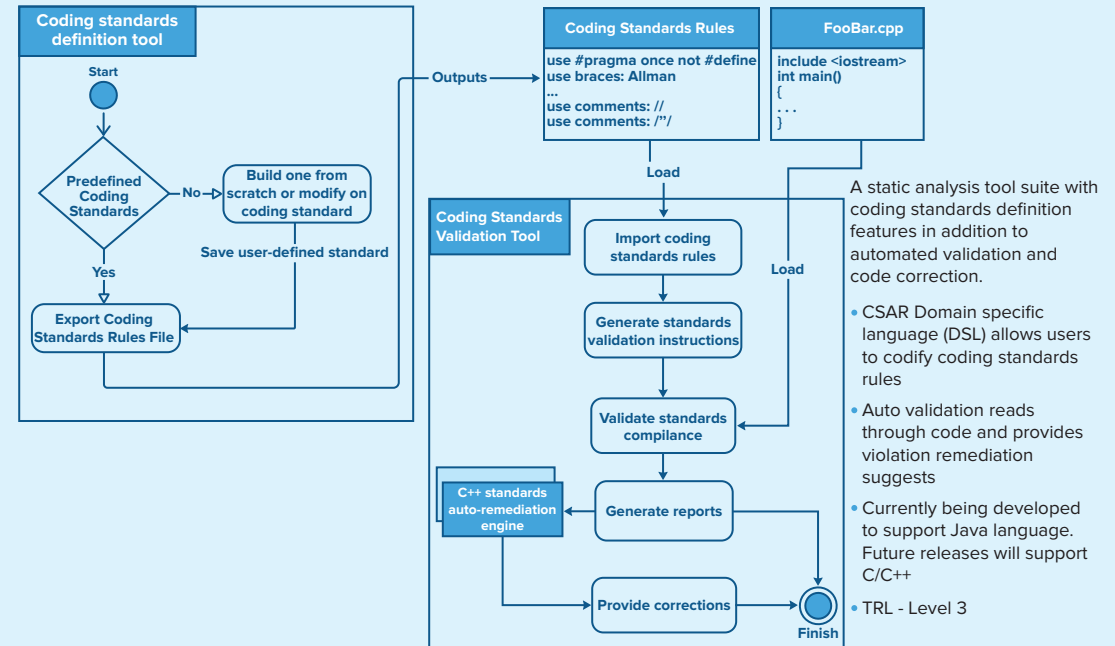
Our team members have the expertise and experience to design and develop software products from the ground up while leveraging cutting edge technologies to make software products more resilient, scalable, and cheaper to maintain. We produce highly-scalable and robust software solutions on cloud platforms such as Amazon Web Services, Google Cloud Platform, and Microsoft Azure or on Cloud Native environments using self-hosted Kubernetes clusters for secure, air-gapped, and private systems

PRODUCT AND SYSTEMS MODERNIZATION

We provide services for modernizing existing products and systems including languages, development tools, processes, infrastructure. Our modernization services will help your teams implement lasting changes that will improve development speed, product quality, and reduce project costs

ZADEN TECHNOLOGIES PRODUCTS

CSAR - Coding standards static analysis and Automatic Remediation



Homebase - Platform-agnostic configuration orchestration and management

Platform-agnostic product that automates the installation, configuration, and auditing of tactical software and infrastructure for mission-critical and classified systems.

- Prevents configuration drift introduced by manual user configuration changes
- Performs modular and iterative software updates
- Discover, provision, and upgrade your entire bare-metal infrastructure
- Create and manage instances in virtualization environment and across private and public clouds
- Control and gather reports from your configuration management software
- Group your hosts and manage them in bulk, regardless of location

