

SCOTT ESCUE

SENIOR SOFTWARE ENGINEER

Application Engineering | Cloud Platforms | Identity & DevSecOps
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PROFESSIONAL SUMMARY

Senior software engineer with 20+ years of experience modernizing enterprise applications, identity platforms, cloud infrastructure, and software delivery. Current hands-on work includes Next.js, TypeScript, React, Node.js/Express, Java-based Keycloak extensions, AWS, Azure, Terraform, and Kubernetes deployment automation. Brings a record of reducing complexity, replacing manual processes with reliable automation, and improving how teams build and operate software.

TECHNICAL EXPERTISE

Languages: TypeScript, JavaScript, Java, Go, SQL, PowerShell, Bash

Applications & APIs: Next.js, React, Node.js/Express, Spring Boot, REST, GraphQL

Cloud & Delivery: AWS, Azure, Kubernetes/AKS, ECS Fargate, Docker, Terraform, AWS CDK, Ansible, CloudFormation, Argo CD, GitLab CI, Jenkins, Azure DevOps

Identity, Integration & Security: Keycloak, OAuth 2.0/OIDC, SAML, LTI 1.3, Apache Shiro, OpenSCAP, STIG, DevSecOps

Data & Persistence: PostgreSQL, Oracle, MySQL, SQL Server, Amazon RDS, ElastiCache

PROFESSIONAL EXPERIENCE

Alaska Northstar Resources | Montgomery, AL

DevSecOps Engineer III

Jun 2024 - Present

- Implement and maintain delivery automation for a greenfield Azure AKS platform supporting an Air Force mission-planning system across development, feature, integration, test, pre-production, and production environments. Build Terraform modules, Argo CD applications, Jenkins jobs, Azure DevOps pipelines, and PowerShell/Bash tooling; implement Keycloak, Kyverno policies, Azure Key Vault, Azure Storage, Log Analytics, and Azure Automation runbooks.
- Built a Go CLI that containerizes OpenSCAP scans, detects the target OS, selects the applicable Security Technical Implementation Guide (STIG) profile, generates compliance reports, and archives Jenkins evidence in Azure Storage; adopted by all six DevSecOps engineers for approximately 15 container images.

Senior Software Engineer / Technical Lead

Nov 2020 - Sep 2023

- Led migration of three enterprise workloads across 10 environments from a government data center to AWS GovCloud and a restricted AWS environment, owning strategy, estimates, sequencing, stakeholder coordination, cutover and rollback planning, and production execution.
- Directed target implementations using AWS Elastic Beanstalk with Amazon RDS for SQL Server and ECS Fargate with Amazon RDS for Oracle and ElastiCache. Contributed SAML federation, containerization, high-availability refactoring, security hardening, Ansible-generated CloudFormation, and automated delivery/security scanning. Completed all team-controlled phases on schedule with no unplanned downtime and supported a standalone Authorization to Operate (ATO).

Southern Fired Software, LLC | Remote

Senior Software Engineer / Consultant (Owner)

Nov 2020 - Present

Long-term concurrent consulting engagement with Omni Federal supporting Digital University; full-time Sep 2023 - Jun 2024.

- Architected and served as primary developer for a production authentication solution integrating Java-based Keycloak SPI extensions with a Next.js/TypeScript interface. Built and continue to maintain both sides of the integration, supporting about nine flows including email/SMS OTP, deferrable email validation, and demographics collection.
- Scaled the solution across about a dozen Keycloak clients, two realms, four persistent environments plus feature environments, 15+ customer organizations, and 200,000+ provisioned accounts. Replaced Keycloak templates with the shared React design system, materially accelerating new-flow delivery and enabling roughly 10 frontend engineers to contribute.
- Maintain learner and administrator Next.js/TypeScript portals and an Express/TypeScript REST API; previously developed GraphQL schema, resolver, and middleware functionality. Designed a reusable LTI 1.3 launch integration and OAuth/OIDC-secured endpoints used by three internal applications and one customer application.
- Independently migrated the Keycloak platform from EC2-backed ECS to AWS Fargate across four persistent environments plus feature environments, completing production cutover without unplanned downtime or user disruption. Codified realms, clients, roles, identity providers, authentication flows, and mappers in Terraform, eliminating recurring configuration drift.

PROFESSIONAL EXPERIENCE (CONTINUED)

Omni Federal | Montgomery, AL

Nov 2019 - Nov 2020

Senior Software Engineer / Technical Lead

- Served as formal technical lead for an eight-engineer mixed contractor and Air Force team delivering a greenfield AWS GovCloud application for the CNS/ATM Center of Excellence. Delivered an accepted production MVP supporting six major workflows within the planned 12-month period and staffing model.
- Built local Docker development and CI/CD foundations with GitLab CI and Jenkins, automating tests, coverage, linting, container builds, security scans, artifact publishing, and feature-environment deployments; supported daily releases when needed and a normal two-week sprint cadence.
- Implemented SAML single sign-on, advocated for managed Amazon RDS, replaced manual SQL scripts with Sequelize migrations, and built reusable Nodemailer/Mustache notifications; mentored and reviewed approximately 10 Air Force developers over the project.

Array Information Technology | Montgomery, AL

Oct 2015 - Oct 2019

Lead Developer

- Led a two-engineer recovery of a multi-year Air Force logistics-planning release inherited after repeated schedule slips, failed acceptance testing, unresolved defects, and incomplete functionality. Replanned delivery, rewrote core utilities, resolved high-risk defects, and delivered an accepted production release on the recovery schedule established at contract transition.
- Automated static application-security testing for two applications using SonarQube and Fortify/Checkmarx, replacing manual scans and accelerating remediation before production. Supported successful migration of both applications from government-hosted virtual machines to AWS GovCloud, contributing SAML integration, configuration externalization, testing, cutover planning, and production execution; later improved Ansible-generated CloudFormation and Jenkins pipelines.
- Helped move a cross-functional group of approximately 14 engineers, testers, managers, and customer stakeholders from annual or multi-year waterfall releases to four-week iterations with backlogs, user stories, acceptance criteria, demonstrations, retrospectives, and incremental releases.

eSolution Architects | Montgomery, AL

Jul 2009 - Jun 2015

Technical Lead / Senior Developer

- Led a four-developer team, owning engineering design, work planning, hands-on development, Tier 3 production support, customer communication, and mentoring of two junior-to-mid-level engineers.
- Restored an inherited Java/WebSphere/Oracle application that failed under minimal concurrent load by correcting Hibernate locking and transaction behavior, redesigning BLOB/CLOB access, and implementing server-side pagination, enabling successful testing and production deployment.
- Led a broad redesign of the data, service, persistence, and reporting architecture and implemented an Apache Shiro authorization framework while remediating injection, CSRF, validation, and access-control vulnerabilities, supporting formal security authorization and materially improving maintainability and security.

EARLIER EXPERIENCE

General Dynamics Information Technology - Lead Application Developer / Task Lead

Jul 2007 - Jul 2009

Led a mixed 8-10 developer contractor/Air Force team delivering a global deployment-planning system used by thousands; resolved severe Oracle VPD performance problems and established reusable UI/data-access components and formal design and code-review practices.

USTRANSCOM / U.S. Air Force Reserve - Java EE Developer (part-time)

Oct 2007 - May 2009

Provided Java EE and security consulting during reserve duty; identified missing server-side authorization, XSS, and SQL-injection vulnerabilities and authored a security acceptance-test suite.

Electronic Data Systems - Software Engineer

Jul 2005 - Jul 2007

Built a Documentum-backed CMS for FutureSoldiers.com that enabled Army personnel to independently manage and publish time-sensitive content; also developed recruiting-lead applications.

TEKsystems / Lexmark - Software Engineer

Dec 2004 - Jul 2005

Developed reusable EMEA B2B commerce capabilities and traced multilingual data corruption to incorrect source-system encoding through cross-application analysis.

United States Air Force, Standard Systems Group - Software Engineer / Java EE Developer

Aug 2001 - Nov 2004

Designed an XML/JMS integration that consolidated logistics data from approximately 20 regional Air Force databases into a centralized prototype system.

CERTIFICATIONS & EDUCATION

Certifications: AWS Certified Solutions Architect - Associate (Dec 2025); Certified Secure Software Lifecycle Professional (CSSLP) (Mar 2021); CompTIA Security+ (Nov 2020)

Education: University of Illinois Springfield - M.S., Computer Science (May 2014); B.S., Computer Science (Jul 2008)