

SCOTT ESCUE

Senior Software Engineer

scottescue.com | github.com/scottescue | linkedin.com/in/scott-escue-b3439913

Prattville, AL | (334) 730-5889 | scott.escue@gmail.com

PROFESSIONAL SUMMARY

Senior Software Engineer with more than 20 years of experience building and modernizing complex software systems. My work spans cloud-native applications, enterprise identity platforms, developer tooling, DevSecOps automation, and AI-assisted engineering workflows using Next.js, TypeScript, Java, AWS, Azure, and Kubernetes.

Throughout my career I have been drawn to projects that are difficult to change: legacy modernization, authentication platforms, cloud migrations, and performance challenges that require digging below the framework level. I enjoy building software that is easier to understand, easier to maintain, and easier for other engineers to build upon.

TECHNICAL SKILLS

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

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

Identity & Security: Keycloak, Enterprise Identity, OAuth 2.0, OpenID Connect, SAML, LTI 1.3, Apache Shiro, Security Technical Implementation Guide (STIG), DevSecOps

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

Developer Tooling: Git worktrees, AI-assisted engineering workflows, GitHub automation, OpenSCAP

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

PROFESSIONAL EXPERIENCE

Alaska Northstar Resources — DevSecOps Engineer III (Jun 2024 - Present)

Deliver DevSecOps engineering for a greenfield Azure platform supporting an Air Force mission-planning system, building secure cloud infrastructure, deployment automation, developer tooling, and platform services.

- Automate delivery of an Azure AKS platform across development, feature, integration, test, pre-production, and production environments using Terraform, Argo CD, Jenkins, Azure DevOps, PowerShell, and Bash.
- Implement Terraform modules, Argo CD applications, Jenkins jobs, Azure DevOps pipelines, Keycloak configuration, Kyverno policies, Azure Key Vault, Azure Storage, Log Analytics, and Azure Automation runbooks.
- Built a Go CLI that containerizes OpenSCAP scans, detects the target operating system, selects the applicable STIG profile, generates compliance reports, and archives Jenkins evidence in Azure Storage; adopted by all six DevSecOps engineers for approximately 15 container images.

Alaska Northstar Resources — Senior Software Engineer / Technical Lead (Nov 2020 - Sep 2023)

Led cloud modernization for U.S. Air Force Inspector General applications, coordinating software engineering, cybersecurity, cloud-platform, customer, and legacy-hosting stakeholders.

- Led migration of three enterprise workloads across ten deployment environments from a government data center to AWS GovCloud and restricted AWS environments, owning strategy, estimation, sequencing, cutover planning, and production execution.
- Directed implementation across Amazon RDS for SQL Server, Elastic Beanstalk, ECS Fargate, Amazon RDS for Oracle, ElastiCache, load balancing, monitoring, and Ansible-generated CloudFormation; contributed hands-on to SAML federation, containerization, high availability, and DevSecOps.
- Replaced manual deployment procedures with automated pipelines and security scans, completed each migration phase under team control on schedule, executed production cutovers with no unplanned downtime, and supported standalone Authorization to Operate (ATO) approval.

Southern Fired Software, LLC — Senior Software Engineer / Consultant (Owner) (Apr 2017 - Present)

Deliver enterprise software, identity, and cloud engineering solutions through a long-term consulting engagement supporting Digital University, a modern enterprise learning platform.

- Architected and served as primary developer for a production authentication solution integrating Java-based Keycloak SPI extensions with a Next.js/TypeScript frontend supporting approximately nine authentication flows, including email/SMS OTP, deferrable email validation, and demographics collection.
- Deployed the solution across about a dozen Keycloak clients, two realms, four persistent environments plus on-demand feature environments, 15+ customer organizations, and a platform with more than 200,000 provisioned user accounts.
- Replaced difficult-to-maintain Keycloak templates with screens built from the team's shared React design system, materially accelerating flow development and enabling approximately ten frontend engineers to contribute instead of relying on one or two Keycloak specialists.
- Maintain two production Next.js/TypeScript portals and an Express/TypeScript REST API supporting learners, administrators, instructors, internal applications, and customer integrations; previously developed GraphQL schemas, resolvers, queries, mutations, and middleware.
- Implemented reusable LTI 1.3 course-launch integration for third-party training vendors, migrated Keycloak from EC2-backed ECS to AWS Fargate without unplanned downtime, codified Keycloak configuration in Terraform, and built Docker-based tooling that reduced local setup from one to two days to a repeatable automated launch.

Omni Federal — Senior Software Engineer / Technical Lead (Oct 2019 - Nov 2020)

Served as technical lead within the U.S. Air Force BESPIN software factory, delivering a greenfield cloud-native application for the CNS/ATM Center of Excellence.

- Joined approximately two months after kickoff, with little implementation completed, and helped lead an eight-engineer mixed contractor and Air Force team that delivered an accepted production MVP supporting six major workflows within the planned 12-month period and staffing model.
- Built the DevSecOps foundation from scratch using Docker Compose, GitLab CI, Jenkins, AWS GovCloud, automated tests, coverage, linting, container builds, security scans, artifact publishing, and feature-environment deployments.
- Implemented SAML single sign-on, Sequelize database migrations, and reusable Nodemailer/Mustache notification services while mentoring approximately ten Air Force developers through pair programming, reviews, and technical leadership.

Array Information Technology — Lead Software Engineer (Oct 2015 - Oct 2019)

Led software development and modernization efforts for enterprise logistics applications supporting U.S. Air Force operations.

- 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.
- Automated static application-security testing for two applications using SonarQube and Fortify, later replaced by Checkmarx, replacing manual scans and accelerating identification and remediation of security defects before production.
- Supported migration of two Air Force logistics applications from government-hosted virtual machines to AWS GovCloud, advising dedicated migration teams and contributing SAML integration, configuration externalization, testing, cutover planning, customer coordination, and post-migration Ansible/CloudFormation and Jenkins automation.
- Helped transition a cross-functional group of approximately 14 developers, testers, managers, and customer stakeholders from annual or multi-year waterfall releases to four-week iterations with regular demonstrations and incremental delivery.

eSolution Architects — Lead Software Engineer (Jul 2009 - Jun 2015)

Served as technical lead for an enterprise application supporting U.S. Air Force logistics operations, leading architecture, development, production support, customer communication, and mentoring while modernizing an aging codebase.

- Restored an inherited Java/WebSphere/Oracle application that failed under minimal concurrent load by correcting Hibernate locking and transaction behavior, redesigning Oracle BLOB/CLOB access, and replacing client-side data paging with server-side pagination.
- Originated and led a redesign spanning the data model, service layer, persistence layer, and reporting architecture, refactoring most of the codebase to eliminate partially migrated legacy structures and improve maintainability.
- Designed and implemented an Apache Shiro authorization framework and remediated SQL injection, cross-site scripting, HTML injection, CSRF, validation, and missing-access-control vulnerabilities while supporting ATO approval.

EARLIER EXPERIENCE

General Dynamics Information Technology — Lead Software Engineer / Task Lead (2007 - 2009). Led a mixed contractor/Air Force team delivering a global deployment-planning application used by thousands of logistics planners and Unit Deployment Managers worldwide; resolved Oracle Virtual Private Database performance problems and established reusable UI/data-access components and formal review practices.

USTRANSCOM / U.S. Air Force Reserve — Software Engineer (2007 - 2009). Provided part-time software engineering and security consulting during reserve duty, identifying missing server-side authorization and injection vulnerabilities and creating acceptance-test procedures covering access controls, XSS, and SQL injection.

Electronic Data Systems — Software Engineer (2005 - 2007). Developed Army Recruiting Command applications, including FutureSoldiers.com and a recruiting lead-management system; built a Documentum-backed CMS using XML schemas, forms, and XSLT transformations that enabled customer-managed website content.

TEKsystems / Lexmark — Software Engineer (2004 - 2005). Developed reusable B2B commerce and content-management capabilities for Lexmark's EMEA business and traced multilingual data corruption to incorrectly encoded source-system data through cross-application analysis.

United States Air Force — Software Engineer (Sep 1999 - Nov 2004). Developed a Java EE logistics prototype and designed XML/JMS integration consolidating data from approximately 20 regional Air Force databases into a centralized prototype system.

CERTIFICATIONS & EDUCATION

Certifications: AWS Certified Solutions Architect - Associate (2025) | Certified Secure Software Lifecycle Professional (CSSLP, 2021) | CompTIA Security+ (2020)

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