

Daniel Chambers

Senior Software Engineer – Backend & Automation

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Senior Software Engineer with 6+ years of experience building and operating production microservices in Java and Python. Improved CI/CD throughput by 35 percent, enforced high automated test coverage standards, supported FedRAMP-compliant releases, and led critical production incident resolution across distributed systems. Brings a reliability-first mindset shaped by prior USAF service.

Skills

- **Languages:** Java, Python, JavaScript, TypeScript, SQL.
- **Backend & APIs:** REST APIs, Microservices Architecture.
- **Frameworks:** Spring Boot, Spring MVC, FastAPI, Spring Framework.
- **Build & CI/CD:** Gradle, GitHub Actions, Azure DevOps, CI/CD Automation.
- **Monitoring & Security:** DataDog, Snyk.
- **Cloud & Infra:** AWS, EC2, S3, Lambda, Containerized Microservices.
- **AI:** Leveraged AI-assisted tooling to accelerate debugging and expand automated test coverage.
- **Testing:** JUnit 4/5, Automated Testing, Report Portal, JaCoCo.
- **Databases:** PostgreSQL, SQL Server, Oracle, SQLAlchemy.
- **Collaboration & Workflow:** GitHub, Jira, Agile / Scrum, Azure DevOps.

Work Experience

Senior Software Test Engineer 2

General Dynamics Mission Systems

Mar 2026 - Present

- Design and implement cost-effective test methods across hardware, software, and integrated systems.
- Execute functional, environmental, operational, and performance testing throughout the development lifecycle.
- Document system verification and produce technical test work products using standards, processes, and tools.
- Isolate, troubleshoot, and track defects to drive resolution and improve product quality.
- Design test/diagnostic programs, fixtures, and equipment; author specifications and procedures for new products.

Software Engineer

Thomson Reuters, Eagan

May 2023 - Nov 2025

- Owned design, development, and operational support of 16+ cloud-native microservices in Java and Python supporting high-volume backend platforms.
- Led cross-team hotfix efforts for FedRAMP-compliant releases, resolving dependency conflicts, security findings, and CI/CD failures across distributed services.
- Standardized pull request workflows, templates, Gradle build configurations, and quality

gates across 25+ repositories, reducing failed builds and improving deployment throughput by 35 percent. Eliminated outdated hardcoded JFrog dependencies that were causing recurring pipeline failures.

- Mentored engineers through detailed code reviews and internal knowledge sessions, improving maintainability and reducing recurring defects across shared modules.
- Built and enhanced REST APIs with structured logging, observability via Datadog, and performance-conscious design to support scalable, secure service communication.
- Supported frontend integration efforts by debugging API contract issues and resolving cross-service data inconsistencies between backend services and React/Vue clients.
- Expanded automated test coverage by developing 785+ test cases across critical services, achieving an average of 93% code coverage in Data Orchestration layer modules and establishing team-wide testing standards.

Software Engineer

Maverick Software Consulting,
Mankato

March 2020 - May 2023

- Designed and maintained automated regression test frameworks integrated into CI/CD pipelines using JUnit and Report Portal, enabling nightly execution and early defect detection across multiple backend services, reducing production bugs by ~30%.
- Developed comprehensive integration tests for microservices architecture, validating database transactions, REST API contracts, and service-to-service communication across PostgreSQL and SQL Server backends in distributed environments.
- Built API and backend test automation in Java and Python, improving reliability and reducing regression defects across distributed systems.
- Developed automated test scripts for REST API validation, database integrity checks, and service integration testing, establishing testing best practices adopted by 3+ development teams.

Electrical and Environmental Systems Specialist on C-130H's

U.S. Air Force

Jan 2018 - Jan 2024

- Troubleshoot, diagnosed and repaired aircraft electrical and HVAC systems, replacing valves, circuit breakers, relays, heat exchangers, and LOX converters to maintain mission-critical readiness.
- Applied systematic debugging methodologies and root cause analysis to resolve complex technical failures under time-critical conditions, building foundation for software troubleshooting and production incident response.

Education

Bachelor of Science in Computer Information Technology

Minnesota State University, Mankato, MN

Associate's in Aviation Maintenance Technology

Community College of The Air Force, Montgomery

Projects

- Developed and deployed a full-stack media tracker (FastAPI, PostgreSQL, Pydantic, JavaScript) hosted on Render, supporting 90+ daily users with 99.9% uptime.
<https://omnitrackr.xyz>

- Built a subscription monitoring web application (FastAPI, SQLAlchemy, Alembic, Next.js, PostgreSQL) with automated price change detection. <https://pricewatchdogs.com/>.
- Developed and deployed Discord bot integrations leveraging Python and SQL to provide automated game server orchestration (reducing server setup time by 90% for 80+ users), real-time weather data, and Twitch API integrations for content creators.

Certifications

- AWS Certified Cloud Practitioner – Expected Q2 2026
- AWS Certified AI Practitioner – Expected Q2 2026