

Robert Strickland

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Summary

Full-stack Java enterprise developer with 25+ years building secure, large-scale systems for federal healthcare and financial services. Deep backend expertise in Spring Boot, Hibernate/JPA, Oracle, and DB2; frontend experience in JSP and JavaScript across the full development lifecycle. AWS Developer certified (2026), focused on modernizing enterprise Java applications for cloud deployment. Brings a combination of deep legacy system knowledge, financial and federal compliance experience, and current cloud architecture skills—ideal for teams modernizing mission-critical applications.

Certifications

AWS Certified Developer – Associate (DVA-C02) • Issued April 2026 • Credential ID: ea7928eeb9c44ae79bca7fb42c0e9cbe

Technical Skills

Languages: Java, Python, JavaScript, SQL, C/C++, Perl, COBOL

Frameworks: Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, RESTful APIs

Frontend: JSP, JavaScript, jQuery, Bootstrap, Thymeleaf, HTML, AJAX, JSF

Cloud & DevOps: AWS (Lambda, CloudFormation, Elastic Beanstalk, S3, EC2, serverless Valkey), Docker, Kubernetes, CI/CD, Jenkins, Git, Maven, Checkmarx, YAML

Databases: Oracle, IBM DB2, MySQL, PostgreSQL, SQL Server

Security: MFA / TOTP (RFC-based implementation), Active Directory integration, FIPS 140-2 encryption, OFAC sanctions screening

Tools & Other: JIRA, JUnit, JSON/XML, Web Services (SOAP/REST), SFTP/FTPS

Experience

Web Developer III (Full Stack), Caelon Federal Services — Jan 2012 – Feb 2026

Lead full-stack developer for Military One Source (MOS), a federal platform serving 3M+ users seeking mental health and insurance claim services.

- Developed Federal OutreachConnect, a full-stack Spring Boot system using Spring Security (Active Directory integration), Hibernate, and JPA, with JSP and JavaScript frontend.
- Wrote a Multi-Factor Authentication (MFA) library implementing the TOTP algorithm directly from RFC specification, eliminating third-party framework licensing for this component.
- Designed and implemented automated batch processes generating JSON data feeds, daily PDF/Excel reports, product order/shipper integrations, and secure SFTP/FTPS delivery of database extracts.
- Participated in lift-and-shift effort to migrate applications into IL-4 GovCloud environment, working through FedRAMP control implementation and compliance requirements.
- Independently led a high-risk migration of document storage from IBM OnDemand to an in-house Vault system with no fallback path once committed; completed without data loss, eliminating several million dollars in ongoing licensing costs.
- Built and maintained CI/CD build and deployment pipelines in Jenkins from the project's outset, eliminating manual release steps; supported code security scans with Checkmarx.
- Authored and executed a Disaster Recovery Plan including live production failover tests.

Senior Software Developer, METHODS Technology Solutions, Inc. — Nov 2008 – Dec 2011

- Re-architected the Louisiana Racing Commission system, migrating from client-server to a web-based platform for improved accessibility and scalability.
- Developed Hart, a hybrid home healthcare management tool integrating a web-based interface and offline Java Swing client with an embedded encrypted database for secure data management.
- Developed ClaimBridge, a Medicare/Medicaid claims submission tool, ensuring compliance, quality assurance, and audit readiness.
- Delivered a complete greenfield Java/DB2 replacement for a scholarship and educational grant system (LOSFA TOPs), building entirely from client requirements; participated in requirements workshops with clients, and worked on DB2 database design.

Software Developer II / Java Developer, CACI / EVenture Technologies — Oct 2003 – Nov 2008

- Converted PL/SQL stored procedures to Java-based logic, modernizing backend functionality across multiple DoD systems.
- Enhanced NROWS system with admin interfaces (Java Servlets/JDBC) and Struts/TopLink integration; built reporting engine for MRRS system with PDF/Excel output via Jasper Reports.
- Built FIPS 140-2 compliant data-at-rest encryption interface for Oracle Lite using Crypto++; designed automated tool for digitally signed XML exchange over secure HTTPS services.

Programmer/Analyst I, Whitney National Bank — Aug 1999 – Oct 2003

- Performed enhancement and maintenance on the bank's production wire transfer system (COBOL II, CICS, AIX, OpenVMS), including OFAC sanctions list screening to flag and prevent transfers to prohibited entities.
- Built several applications from scratch to automate account reconciliation, and automated secure file transmission for reconciliation processes using Python and PGP encryption.

Programmer/Analyst, U.S. Marine Corps — Mar 1990 – Jun 1994

- Developed and implemented a prototype system in COBOL/CICS for online updating of central manpower and financial tables used Marine Corps-wide; awarded the Navy Achievement Medal for innovation.

Graduate Security Research

Master's Thesis Research, Computer Science — 2015

Implemented a proof-of-concept Windows kernel mode driver exploiting Direct Memory Access (DMA) to locate and monitor the system keystroke buffer without CPU involvement, bypassing contemporary anti-malware software. Captured keystrokes were encrypted and exfiltrated to a remote system entirely from GPU memory. Developed a companion detection tool using the PCI bus to inspect video card memory from a CPU-bound process, exposing GPU-resident malware with identified performance mitigations. Degree not completed due to a family medical emergency.

Education

B.S., Computer Science (Minor in Accounting) • University of New Orleans
Certificate, COBOL Programming • Computer Sciences School, Quantico, VA