

Jason Marks

Senior Principal Software Engineer & Product Owner

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SUMMARY

Detail-oriented, results-driven Senior Principal Software Engineer with 25+ years of experience across defense, telecom, and enterprise software. Equally effective in technical leadership and individual contributor roles. Proven track record building high-scale, high-availability platforms that deliver measurable business impact. Language and technology agnostic.

EXPERIENCE

Senior Principal Software Engineer

Comcast Corporation, Service Policy Assurance — Cherry Hill, NJ

Feb 2017 – Present

Product Owner and Engineering Lead for two mission-critical security platforms protecting Comcast and its 30M+ customer base.

MAD — MACHINE INTELLIGENCE, ANALYTICS & DATA GATHERING

Detection platform that identifies compromised user accounts by analyzing identity signals, login behavior, and abuse patterns. Feeds downstream mitigation systems with high-confidence abuse events.

AIRES — AUTOMATED INCIDENT RESPONSE & ENGAGEMENT SYSTEM

End-to-end automated mitigation platform ingesting 35,000+ events per day across fraud, abuse, and security incident types. Executes 100,000+ automated policy actions daily — including password resets, service suspensions, customer notifications, and postal correspondence. 99% of events are resolved without human intervention; the remaining 1% are routed to a custom case management UI for technician resolution.

- DMCA compliance automation eliminates **over \$1 billion** in annual legal liability exposure
- Compromised account remediation has resecured **millions of customer identities**
- Voice fraud mitigation program has saved **over \$60 million** since inception

Stack: Java, Spring Boot, MySQL, AWS (Elasticsearch, Lambda, EC2), Cloud Foundry, Splunk, GitLab CI

Software Engineering Manager

Comcast Corporation, Service Policy Assurance — Cherry Hill, NJ

Apr 2016 – Feb 2017

- Managed a team of 7 software and big data engineers in the compliance, anti-fraud, and anti-abuse domain.
 - Led the team to bring a greenfield automation and services platform to production, consolidating disparate tools and delivering significant cost savings.
 - Led the team in architecting a low-cost data lake on Hadoop, HBase, Solr, and NiFi to power organizational analytics and ML initiatives.
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Senior Android Engineer

Comcast Interactive Media — Philadelphia, PA

Jun 2014 – Apr 2016

- Core contributor to the redesign and redevelopment of the customer-facing Xfinity Home Android app. Primary engineer for accessibility, login, and alarm-in-progress experiences.

- Selected for Summer of Code 2015 rotation — joined the Xfinity Home iOS team to build the Continuous Video Recording feature in Objective-C and Swift.

Stack: Java, Android, RxJava, Retrofit, Dagger, OkHttp, Objective-C, Swift

Senior Software Engineer

Comcast Corporation — Mount Laurel, NJ

Sep 2007 – Jun 2014

- Led development of Telescope, a highly available, horizontally scalable, geographically redundant abstraction layer for Comcast's TR-69/CWMP device management platform.
- Led development of DOLLEE, a geographically redundant cable modem cloning detection system running across 100+ servers, processing DHCP data for 25M+ modems.
- Championed adoption of Scrum/Agile and built the team's continuous integration and code quality platform from the ground up.

Stack: Java, C, SOAP/JAX-WS, JMS, EJB, Oracle WebLogic, Oracle RAC, Linux

Senior Member of Engineering Staff

Lockheed Martin Corporation — Moorestown, NJ

Sep 2001 – Sep 2007

DoD Secret Clearance

- Designed, implemented, and tested enhancements to the Aegis Reusable Components library — common infrastructure used throughout the Aegis Weapon System.
- Developed performance benchmarks evaluating commercial and proprietary middleware messaging products.
- Managed task estimation, status reporting, and budget tracking for project work.

Stack: C, Java, Ada, POSIX, DDS, Linux, Solaris, HPUX

Senior Associate Software Engineer

Lockheed Martin Corporation — Manassas, VA

Aug 1999 – Sep 2001

DoD Secret Clearance

- Designed and developed SONAR display systems for the Virginia-class submarine using Motif and proprietary graphics packages.
- Designed and developed a control library for NTDS-E interface cards.

Stack: C++, Java, Unix, X-Windows, Motif, VxWorks

EDUCATION

B.S. Computer Engineering — *Cum Laude*

Virginia Tech

1995 – 1999