



AI/ML Platform Architect

At Loom Security, we're redefining how organizations understand and secure human and non-human behavior in the modern enterprise. Our team is building cutting-edge cybersecurity and AI-native technology that gives companies unprecedented visibility into user activity, risk, and intent across identities, devices, applications, and data. Joining Loom means working alongside experienced security leaders, innovators, and builders who are passionate about solving some of the industry's most complex challenges while creating products that have a direct impact on how enterprises defend themselves in an AI-driven world.

Role Summary

Work Environment: Remote, U.S.

Reports to: Chief Product and Delivery Officer

We have an opportunity for an AI/ML Platform Architect to lead the technical design, architecture, and implementation of Loom Security's AI solutions, platform, and services. This is a critical role in shaping the intelligence layer of our solutions and services, driving innovation in AI, ML, and automation to deliver actionable, business-aligned outcomes.

You will collaborate with Product Management, Engineering, Customer Success, Marketing, Partner Management, and our Customer Advisory Board to design AI-driven services and solutions that unify posture insights across the information security landscape.

Responsibilities

- Architect and own the AI/ML aspects for Loom's USPM service and platform, ensuring scalability, performance, and resiliency for our customers.
- Define the AI vision for data analytics across posture management domains (CSPM, DSPM, ASPM, IAM, etc.).
- Partner with Product and Engineering to translate business and customer requirements into technical architectures and AI-driven solutions.
- Design and implement large-scale data pipelines, real-time event processing, and ML workflows.
- Leverage cloud-native AI/ML services (AWS, Azure, GCP) to build scalable and interoperable solutions.
- Ensure security, compliance, and governance in AI pipelines, aligning with Zero Trust and data protection best practices.
- Stay informed on AI and cybersecurity trends, applying emerging technologies to strengthen Loom's service offerings and solutions.
- Collaborate with Partner Management on ecosystem interoperability, ensuring AI services support integration with partner technologies.
- Mentor engineers and data scientists, providing architectural guidance and technical leadership.
- Contribute to planning and innovation discussions, aligning AI service architecture with long-term market strategy.

What You'll Bring

- 7+ years of software architecture experience with emphasis on AI/ML systems.
- Proven expertise with AI/ML frameworks and distributed systems, including system integrations and data flow.
- Hands-on experience with cloud-native AI/ML services (AWS SageMaker, Azure ML, GCP Vertex AI).
- Strong background in large-scale data engineering, ETL, and streaming.
- Familiarity with posture management, identity, cloud, and cybersecurity technologies.



- Experience working with partner ecosystems, cloud marketplaces, or interoperability programs a plus.
- Ability to bridge complex technical concepts with business needs and customer outcomes.
- Excellent communication and leadership skills with a track record guiding cross-functional teams.
- Bachelor's or Master's degree in Computer Science, AI/ML, or related field (or equivalent experience).
- Self-starter mentality with a passion for innovation and delivering transformative solutions.
- Ability to pivot quickly as priorities shift.
- Desire to contribute to a growing team and provide leadership both up and down the organizational structure.
- Willingness to take initiative and provide leadership in shifting environments.
- Ability to work effectively in a fast-paced environment.
- Detail-oriented with a problem-solving mindset.

Why Join Us?

- Play a pivotal role in building Loom's USPM service and platform that define the future of persona context.
- Shape an emerging market by applying AI/ML to unify fragmented security signals into actionable insights.
- Join a channel-first, ecosystem-driven company where partner collaboration and interoperability are central to success.
- Work in a culture that values innovation, customer outcomes, and bold ideas.
- Gain visibility across the security industry by working directly with customers, partners, and analysts.
- Grow with Loom as we scale, with opportunities for expanded leadership and innovation.
- Contribute to a mission that simplifies security complexity and delivers measurable business value worldwide.