

Brian Moore

Senior Software Developer | Technical Lead Specializing In Large Scale Highly Available Design

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Technical lead with 10+ years at Amazon designing, building, and owning distributed systems **ingesting 400+ petabytes of daily data** and **handling millions of requests-per-second**. Deep experience with high availability, cost optimization, scalability, and operational excellence. Proven leader influencing **50+ engineers across multiple teams**, driving cross-org technical strategy, and delivering **multi-million-dollar infrastructure savings**. Known for breaking down ambiguous problems and translating them into durable, scalable solutions.

Primary Languages: Java, Python, SQL, TypeScript

Tools & Technologies: S3, DynamoDB, SQS, CDK, CI/CD, Docker, Kinesis, Kubernetes

Professional Experience

Amazon - San Luis Obispo, CA

Senior Software Development Engineer / Technical Lead | 07/2022 - Present

- Technical lead for Amazon Security's data ingestion, storage, processing, and query platform with *40+ microservices*.
- Direct architecture ownership for *4 engineering teams (~30+ engineers)* and close collaboration with *3 additional teams (~25+ engineers)*.
- Owned the team's region expansion strategy to expand the platform into *8 air-gapped regions*.
- Built automatic region expansion reducing the time to build my team's systems in a new region from *2 months to 2 days*, ensuring security coverage before any new region launches. To date this process has been used for *12 AWS commercial regions and 5 air-gapped regions*.
- Scaled the platform to *ingest 400PB+ daily from 350K+ data sources*.
- Led infrastructure optimization initiatives including *avoiding \$10MM+ in annual spend* out of a *\$70MM+ budget* without impacting system availability.
- Architected the first-ever integration of an internal Amazon Security service into AWS Metering Infrastructure, establishing usage-based cost allocation for internal products and enabling *\$12.7M+ in accurate service attribution*.
- Regularly present technical recommendations to senior leadership, breaking down ambiguous, cross-org problems into actionable execution plans.

Software Development Engineer II | 12/2017 - 07/2022

- Worked across Amazon Prime, Last Mile Delivery, and Amazon Security, focusing on scalable architecture and operational excellence.
- Primary architect for a large-scale security data processing platform built from scratch in AWS by an initial team of 5 engineers.
- Built manual tooling to expand the platform into all AWS regions: *22 AWS commercial regions, 2 China partition regions, and 4 GovCloud regions*.

- Recognized as the subject matter expert for core components of Amazon's security data processing platform.
- Led scaling readiness for Prime Day and Q4 peak across multiple years planning for *100%+ increases in projected traffic*.

Software Development Engineer I | 07/2017 - 12/2017

- Supported Amazon Prime benefits systems for Q4 holiday peak readiness.
- Engineered traffic-based scaling models, executed game day testing, and validated peak-load capacity.
- Reported readiness status to senior leadership during company-wide weekly peak planning calls.

Junior Software Developer | 01/2015 - 07/2017

- Year-round software engineering intern supporting Amazon Prime Benefits, working 16 hours/week during the academic year and full-time during summers.
- Lead architect and primary builder of two end-to-end production systems integrated directly into the Amazon checkout order pipeline, invoked for every order placed worldwide.
- Designed, implemented, and launched systems enabling Prime benefit eligibility, evaluation, and usage at checkout with strict latency and availability requirements.
- Trained full-time engineers on order pipeline plugin development and operations, raising team-wide capability in a highly specialized, high-risk area.
- Served as subject matter expert for both systems during and after the internship, supporting operational issues, feature expansion, and on-call escalations.
- Gained early experience operating Tier-1, revenue-critical services with strong emphasis on correctness, fault isolation, and operational excellence.

Leadership & Community Involvement

Benevolent and Protective Order Of Elks - San Luis Obispo Lodge

2nd Vice President | 04/2025 - Present

- Manage a *\$2M annual operations budget*
- Oversee bar, and kitchen staff
- Constructively deal with member complaints and issues

Officer Corps | 04/2023 - 04/2025

- Implemented RFID door access system for over *5,000 users*
- Managee a weekly dance event open to the public with *200+ attendees*
- Implemented an online reservation system for RV campers

Education

California Polytechnic State University, San Luis Obispo

B.S. in Computer Engineering | Graduated June 2017