Emma Lindqvist Senior Software Architect

Boston, MA · emma.lindqvist@gmail.com · +1 617-555-0193 · linkedin.com/in/emmalindqvist

PROFILE SUMMARY

- **Senior Software Architect** with **9 years** designing **cloud data platforms for design and engineering software**, specializing in **domain modeling, API platforms and multi-tenant data**.
- Hands-on with **Java**, **Kotlin**, **TypeScript**, **AWS** (EKS, Aurora, Lambda), **PostgreSQL**, **Apache Kafka**, **GraphQL** and **AsyncAPI**.
- Deep expertise in **bounded context design**, **schema evolution**, **capacity modeling** and **architecture reviews**, with an ADR behind every major call.
- Partners with **11 product teams, SRE and security** through design reviews, an API council and quarterly planning.
- Mentors **3 senior engineers**, wrote the platform's **GraphQL schema guidelines**, and teaches the internal **C4 modeling workshop**.

TECHNICAL SKILLS

Architecture Styles & Patterns:	Domain-driven design, event-driven architecture, microservices, CQRS, event sourcing, hexagonal architecture
Languages & Frameworks:	Java, Kotlin, Spring Boot, TypeScript, Node.js
Cloud & Infrastructure:	AWS (EKS, Aurora, Lambda, S3), Kubernetes, Terraform, Docker
Data & Messaging:	PostgreSQL, Apache Kafka, MongoDB, Redis, Elasticsearch, Debezium
APIs & Integration:	GraphQL, REST, OpenAPI, AsyncAPI, Apache Avro, Schema Registry
Security & Identity:	Threat modeling, OAuth 2.0, OpenID Connect, tenant isolation, SOC 2, ISO 27001
Documentation & Modeling:	C4 model, ADRs, Structurizr, arc42, ArchUnit, RFCs

EDUCATION

University of Michigan — **B.S.E. in Computer Science** — Ann Arbor, MI · Sep 2013 to May 2017

WORK EXPERIENCE

Autodesk — **Software Architect, AEC Data Platform** — Boston, MA · Apr 2022 to Present

- Designed the bounded contexts for the AEC data model behind Autodesk Platform Services (projects, elements, versions, permissions), giving each one owner team and cutting cross-team schema changes by **70%** in a year.
- Set read latency, availability and cost-per-tenant targets for the element query service, then checked them with a capacity model and **Gatling** tests at 5x launch load, holding p99 under **250 ms** at GA.
- Wrote the **GraphQL** schema guidelines and an **AsyncAPI** event standard for the **11 teams** that publish design data changes, with no breaking changes for API customers across 4 releases.
- Set up the AEC data architecture review with a design template and ArchUnit checks in CI, reviewing 60+ designs a year and cutting review turnaround from 3 weeks to **6 days**.
- Wrote 27 ADRs, including the choice of **PostgreSQL** with JSONB over a graph database for element relationships, which saved an estimated **$1.1M** over 3 years in licenses and operations.

PTC — **Senior Software Engineer, Onshape** — Boston, MA · Jul 2017 to Mar 2022

- Moved the Onshape document history service from a single **MongoDB** replica set to sharded collections with no downtime, cutting p95 history load time from 2.8 s to **600 ms**.
- Added tenant isolation checks and OAuth 2.0 scopes to the public REST API, closing **14 findings** from the yearly penetration test before the SOC 2 Type II audit.
- Drew the C4 container diagrams for **30 services** and ran a monthly design clinic, which 3 engineers I mentored went on to lead.