

■ Summary

Software engineer with ~10 years across ML and distributed infrastructure. Staff Engineer (E6) at Meta Ads Ranking, where I have worked across the full ML stack — research and modeling, features, serving, and experimentation for ranking prediction models. Previously at AWS, where I built highly concurrent distributed systems for sensitive-data discovery in Amazon Macie.

■ Work Experience

Meta

Washington (Seattle/Bellevue)

- **E6 (Staff) Software Engineer (ML Infra) March 2026 - Present**
 - Zero-to-one internal platform that accelerates adoption of new AI/ML data techniques by compiling a Python DSL to multiple backend execution engines.
 - Leading the batch execution path end to end — design and implementation of the DSL-to-Spark compiler
 - Contributing to the shared DSL and compiler used across all backends.
- **E5 (Senior) Software Engineer (ML) March 2023 - March 2026**
 - Founded and led a new internal platform accelerating productionization of new modeling techniques.
 - Proved the concept with an MVP, then led a cross-org engineering team building the automation resulting in a 50% reduction in manual operations during productionization.
 - Techniques shipped through the platform contributed \$1B+ in incremental revenue.
 - Drove various deep learning research initiatives such as
 - Dynamic ensemble weight prediction using deep learning models
 - Leveraging transfer learning in training data reduction
 - Transfer learning as a technique to avoid overfitting during multipass training.
 - Led cross-org alignment across 15+ engineering and management stakeholders, most often to resolve conflicting research directions between orgs.
- **E5 (Senior) Software Engineer (Infra) Nov 2021 - March 2023**
 - Led design and development of a new data model backing [Application Clear History](#), including live migration of user data served at 100M+ QPS — spanning 5 org code bases, 20+ engineers, and 10+ privacy and legal cross-functional partners.

Amazon

Vancouver (Canada)

- **Software Development Engineer (AWS)** *March 2019 - Sep 2021*
 - Led key initiatives in the zero-to-one build of [AWS Macie V2](#), a distributed service that discovers and classifies sensitive data in customer S3 buckets.
 - A cross service throttling mechanism with a REST notification mechanism
 - Concurrent + Streaming processing for various archive file types.
 - Error propagation across the task classification service to provide correct notifications to clients.
 - Worked with various AWS services including Cloudwatch, Cloudformation, EC2, SQS, S3, ECS, ...

FaxDroid (Side Project)

Vancouver/Toronto (Canada)

- **Founder** *April 2018 - Mar 2021*
 - [FaxDroid](#) was an online fax service that allowed users to send and receive faxes directly from their browser. FaxDroid delivered 40,000+ faxes, handled 8,000+ payment transactions and made \$12,000+ in sales.
 - **Stack:** Full stack development, Rest API backend, Angular IO + SSR front end. CloudFront and Lambda@Edge for the client side serving ([Read More ...](#))
 - **Deployments:** CI deployments using Jenkins and CodeDeploy ([Read More ...](#))
 - **Payments:** Integrated with PayPal as a payment processor ([Read More ...](#))
 - **Testing:** PHP unit/integration tests. Selenium e2e tests (local and device farm)
 - **Infra:** Worked with various AWS services (WAF, Route53, CloudWatch, ELB, RDS, ASG,) ([Read More ...](#)), Cloudformation, AMI, Ansible, Flyway
 - **VOIP:** Setup a programmable PBX (Asterisk) and integrated with VOIP Sip trunks to build a fax server ([Read More ...](#))
 - **Sandbox:** docker containers for isolated sandbox environments for customer file processing ([Read More ...](#))
 - **Fraud:** Integrated with various fraud detection and verification services such as Twilio Verify, IpStack, Telesign Fraud Score ([Read More ...](#))

MoneyKey (Propel Holdings)

Toronto (Canada)

- **Senior Java Developer** *Jan 2018 - Jan 2019*
 - Led the overhaul of the software release process via introduction of automated testing, version controlled DB changes, automated build and deployment to QA hosts.
 - Led the design and development of Right to Cure legal notification system, requiring alignment across various cross functional partners (finance, legal, collections, ...)
 - Led the design and development of a new payment schedule engine, enabling modifications to payments schedules while re-calculating interest/principal payments

J-SAS

Toronto (Canada)

- **Software Developer** *May 2017 - Jan 2018*
 - Developed realtime scalable multithreaded application for generating ML features from live network data (Java)
 - Developed Full stack web application (Spring-boot + Angular JS)

Ryerson (Toronto Metropolitan University)

Toronto (Canada)

- **Graduate Research Assistant** *Sep 2016 - Oct 2017*
 - ML Research on network intrusion detection
 - Developed ML feature generator for offline network package data (C code)

Previous Experience

- **Istaman Azma: Software Developer/Structural Engineer** *May 2014 - Jan 2016*
- **Sharif University: Graduate Researcher (Structural Engineering)** *Sep 2012 - Jan 2014*

■ Education

Master of Science in Computer Science

Toronto Metropolitan University (formerly Ryerson University), Toronto, Canada

Master of Science in Structural Engineering

Sharif University, Tehran, Iran

Bachelor of Civil Engineering

Sharif University, Tehran, Iran