

## SUMMARY

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Software Engineer at Meta driving technical strategy for ML-powered content safety systems at Instagram scale. Own and architect LLM detection pipelines serving 108M+ users and lead comment integrity infrastructure processing 1.5T+ daily signals across 3B+ users. Proven track record of defining system design, shipping zero-to-one platforms (20 to 8,000+ creators), and delivering measurable impact in trust & safety and creator ecosystems. Columbia MS in CS (ML track).

## PROFESSIONAL EXPERIENCE

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- **Software Engineer** Mar 2025 – Present  
*Meta Platforms* New York, NY  
*Instagram Integrity & Youth Protection* Jan 2026 – Present
  - Own the Problematic Anonymous Accounts (PAA) LLM detection pipeline, leveraging *Llama* and *Gemini* to identify high-risk accounts across 55M+ users in 5 markets (expanding to 108M+ across 10). Improved detection precision from 70% to 96%, fully eliminating manual review dependency.
  - Co-lead the Instagram Comment Integrity System, processing 1.5T+ daily comment signals across 3B+ users. Reduced violating pinned comment exposure by 98% and optimized normal comment enforcement by 4%, improving content quality across youth-adjacent surfaces.
  - Partner with policy, privacy, and product teams to translate safety requirements into robust technical solutions, aligning enforcement logic, review workflows, and user experience.
- *Horizon Creator Platform & Monetization* Mar 2025 – Jan 2026
  - Built core capabilities for the Meta Horizon Creator Portal, enabling creators to generate, list, and monetize digital assets using *Generative AI* and cross-surface tooling. Grew active creator base from 20 to 800 to 8,000+ through end-to-end publishing and monetization workflows across Horizon, Facebook, and Instagram.
  - Architected scalable integrity systems to detect, review, and enforce policy on user-generated avatar items, including a modular enforcement framework and creator strike pipeline.
  - Designed a digital item tiering system with real-time calculation and scalable backend persistence, and drove product expansion into new international markets by implementing region-specific compliance logic.
- **Software Engineer** Jul 2021 – Mar 2025  
*Bank of America* Jersey City, NJ
  - Developed cloud-based data visualization platforms using *Java*, *Spring Boot*, and *AWS*, supporting enterprise-level reporting and analytics across multiple business lines.
  - Led a critical framework upgrade across thousands of source files under tight timelines, reducing build failures and improving system stability across the platform.
  - Built internal *Python*-based tooling and automation utilities to support platform reliability and technology lifecycle management.
- **Research Assistant** Jan 2020 – May 2021  
*The Ohio State University* Columbus, OH
  - Developed computer vision and data analysis pipelines using *Python* and *OpenCV* for applied research in aviation, agriculture, and cognitive science.
  - Built end-to-end data collection and visualization tools, including mobile and web-based applications, to support real-world experimentation and cross-disciplinary research.

## TECHNICAL SKILLS

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- **Languages:** Python, PHP (Hack), Java, JavaScript, SQL, HTML, C++, C#
- **Technologies:** GraphQL, AWS (EC2, RDS, S3), Kafka, Linux, Git, MySQL, Oracle DB
- **Frameworks:** React, PyTorch, Spring Boot, Flask, FastAPI, RESTful APIs, Docker, jQuery, TensorFlow

## EDUCATION

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- **Columbia University** New York, NY  
*Master of Science in Computer Science (Machine Learning Track)* Sep 2023 – May 2025
- **Stanford University** Stanford, CA  
*Artificial Intelligence Graduate Program (Non-degree Option)* Sep 2021 – Mar 2023
- **The Ohio State University** Columbus, OH  
*Bachelor of Science in Computer Science and Engineering (Artificial Intelligence)* Aug 2016 – May 2021