

PROFESSIONAL EXPERIENCE

- **Software Engineer** Mar 2025 – Present
Meta Platforms New York, NY
 - Built core capabilities for the *Meta Horizon Creator Portal*, enabling creators to generate, list, and monetize digital assets using *Generative AI* and platform-aligned creation tooling.
 - Designed and launched end-to-end publishing and monetization workflows with cross-surface support across *Horizon*, *Facebook*, and *Instagram*, increasing creator engagement and marketplace growth.
 - Led integrity workstreams by architecting scalable systems to detect, review, and enforce policy on user-generated avatar items, including a modular enforcement framework and creator strike pipeline.
 - Designed and delivered a digital item tiering system with real-time calculation, differentiated UI representation, and scalable backend persistence, including automated migration and historical backfill logic.
 - Drove product expansion into new international markets by implementing region-specific behavior and compliance logic, partnering with privacy, legal, policy, and infra teams to meet regulatory requirements.
 - Contributed to development of the *Meta Horizon Studio* desktop application by porting key Creator Portal capabilities into a native 3D editing experience, improving performance and creator workflow speed.
- **Software Engineer** Jul 2021 – Mar 2025
Bank of America Jersey City, NJ
 - Developed a cloud-based data visualization dashboard using *Spring Framework*, *Spring Boot*, *Maven* and *JBoss*.
 - Designed new pages and features using system design techniques and the *Model-View-Controller* (MVC) architecture.
 - Implemented 200+ pivotal features and pages using *Java*, *JavaScript*, *SQL*, and *HTML*.
 - Earned recognition for completing a major framework update, modifying thousands of files in one week.
 - Created and modified database views and tables in *MySQL* to optimize data storage and retrieval.
 - Developed *Python* plugins for managing bank's technology stack such as status of security patches.
 - Implemented algorithms to detect and analyze performance issues and outages related to market connectivity, processing failures, disruptions to trading, application performance degradation, and client services.
- **Research Assistant** Jan 2020 – May 2021
Department of Food, Agricultural, and Biological Engineering (OSU) Columbus, OH
 - Developed the SpreadCAL Project: A mobile application catered to the calibration of dry fertilizer mass.
 - Utilized the *OpenCV* library, to develop a model that recognizes features of fertilizer particles.
 - Implemented an *Android* app in Java that shows user interface by leveraging the developed model.
- *Center for Aviation Studies (OSU)* Columbus, OH
 - Participated as a team member in Project DV8, led by Prof. Seth Young, which entailed the development of a flight data analysis and visualization framework sponsored by the FAA (Federal Aviation Administration) and NetJets.
 - Created a 3-D flight information visualization mode using *Pydeck* library.
 - Enhanced features and UI elements including map zoom, heatmap visualization, and .csv generation.
- *The Communication and Cognitive Systems Lab (OSU)* Columbus, OH
 - Created a remote psychology web experiments, tracking eye focus data via webcam in response to Covid-19 policies.
 - Utilized *WebGazer* in *JavaScript* for an eye-tracking web experiment, enabling data collection and analysis.
 - Leveraged *jspsych* in *JavaScript* to construct web-based behavioral experiment frameworks.

TECHNICAL SKILLS

- **Languages:** PHP (Hack), Python (7 years), Java (9 years), JavaScript (7 years), SQL (5 years), HTML, C++
- **Technologies:** GraphQL, AWS(EC2, RDS, R3), Kafka, Linux, Git, MySQL, Oracle DB, MongoDB, Neo4j
- **Frameworks:** React, PyTorch, Spring Boot, Flask, FastAPI, RESTful API, Docker, JQuery, TensorFlow

EDUCATION

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