# Indrajeet Aditya Roy

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## EDUCATION

**Iowa State University** — **Aug 2018 - May 2022**
*Bachelor of Science, Software Engineering*

**Northeastern University** — **Sept 2023 - Present**
*Master of Science, Computer Engineering (Computer Vision & ML Concentration)*

## SKILLS

**Programming Languages:** Java, Python, R, C, C++, Javascript, Typescript, HTML5 & CSS3, Kotlin, Elixir, Ruby

**Python Libraries:** Pandas, Numpy, Transformers, SqlAlchemy, MatPlotlib, Scikit-learn, SciPy, TensorFlow, PyTorch, Tkinter, Keras

**Web Development Frameworks:** Django, Flask, React, Vue, NodeJS, Rails, Phoenix, Spring, Spring Boot

**Mobile Development Libraries:** Android (Retrofit, Glide, Hilt/Dagger, Room, RxJava, Coroutines, Moshi, LiveData, ViewModel)

**Database Systems:** Relational (MySQL, PostgreSQL), NoSQL(DynamoDB, Redis)

**Dev Tools/Applications:** Github, GitBucket, Jenkins, Docker, Docker-compose, VirtualBox, Maven, Kafka

**Cloud Platforms:** AWS (API Gateway, Lamda, EC2, RDS, S3, SQS)

## EXPERIENCE

**The RealReal (San Francisco, CA)** — **June 2022 – Aug 2023**
*Software Engineer*

- **Project:** *"Pricing Estimator & Customer360" - User data aggregation & analytics tool*
  - **Objective:** Optimize data-driven decision-making based on a customer's information profile, preferences and historic purchasing/consignment behavior.
  - **Action:** Developed microservices to handle concurrent, real-time analysis and aggregation from multiple data sources. Built dynamic UI integrated with API services through GraphQL subscriptions for real-time updates. Implemented search mechanism for querying and typo search, both integrated into the frontend. Developed cache invalidation strategies for real-time data synchronization and verification.
  - **Impact:** Increased user traffic and product revenue by 30% post feature launch.
- **Project:** *Engineering Org Feature Flag Vendor Migration*
  - **Objective:** Transition engineering org feature flag service vendor from LaunchDarkly to Harness.
  - **Action:** Developed tools suite and migration pipeline for automation, feature flag evaluation & migration. Developed scripts rollback mechanism for fetching, transformation, and re-deployment of feature flag configurations between the two platforms. Implemented JSON schema-based data validation to ensure the consistency and integrity of feature flag settings throughout the migration process.
  - **Impact:** Achieved org vendor cost optimization; streamlined system transition for developers.
- **Project:** *"Get Paid Now" - User facing consignment product*
  - **Objective:** Boost customer consignment traffic.
  - **Action:** Implemented automated consignment processing pipeline featuring real-time valuation and status updates. Developed microservices for real-time notifications, concurrent distributed updates and live tracking in a React frontend. Integrated OpenSearch and Algolia for consignment search functionality.
  - **Impact:** Increased user consignment traffic and user retention rates post-refactor

**The RealReal (San Francisco,CA)** — **June 2021 – Aug 2021**
*Software Engineering Intern*

- **Project:** *The RealReal Website Consignor Workflow Refactor*
  - **Objective:** Transition The RealReal website consignor product pages from Elixir Phoenix framework to a React ecosystem
  - **Action:** Utilized Elixir (Phoenix), React (Redux, Axios, Apollo), Next.js, Vercel.
  - **Impact:** Increased user traffic and retention by 35% post program launch.

**Carlin Fit (Philadelphia, PA)** — **May 2020 – Aug 2020**
*Software Engineering Intern*

- *Purple Bug UV Light Ride-Share Cleaner companion app*
  - **Objective:** Develop ios/android mobile app for communication and pairing with UV light hardware component
  - **Action:** Utilized Swift (iOS), Java/Kotlin (Android), Python (backend API).
  - **Impact:** Fully functional Beta versions of the app were available on Android/ios platforms.

## RESEARCH

- De-anonymization and DOS attacks against decentralized networks. (View Paper)