

# Indrajeet Aditya Roy

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## OBJECTIVE

Full stack software engineer looking to build innovative solutions, gain professional experience and work with interesting people.

## EDUCATION

**B.S Software Engineering, Iowa State University**

August 2018 - May 2022

**M.S Computer Engineering (Computer Vision & Machine Learning Concentration), Northeastern University**

Sep 2023 - Present

## SKILLS

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

**Python frameworks:** Pandas, Numpy, Dask, SQLAlchemy

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

**Mobile Development:** Android, iOS

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

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

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

**Cloud Tools:** AWS (API Gateway, Lambda, EC2, RDS, S3, SQS)

**Devops frameworks :** Airflow, Kubernetes

## WORK EXPERIENCE

**The RealReal (San Francisco, CA)**

June 2022 – Sep 2023

Software Engineer

- **Internal Customer Data aggregation/analytics Tooling ("Pricing Estimator", "Customer360")**
  - **Objective:** Provide customer associates with customer buying/consigning behavior analytics and history.
  - **Implementation:** Search and analytics workflows via backend API services and frontend client.
    - Used Ruby Rails, Resque and Redis for job-queuing and caching
    - Used Elixir (Dataloader, Absinthe, and Ecto for data fetch, transform and management)
    - Used GraphQL, Okta, and OpenSearch for API request handling, authentication, and search.
    - Used Python for data analytics and aggregation service
    - Used React (Redux for state management, Axios for API interaction and Apollo for GraphQL querying)
  - **Result:** Increase in user consignment traffic and revenue from customer appointments by 30%.
- **Dev Feature Flag Migration Tools**
  - **Objective:** Migrate organization Feature flag service from LaunchDarkly to Harness.
  - **Implementation:** Backend API services and frontend client.
    - Used Python and Elixir(Ecto, Oban, Broadway) to build a tool for data consistency automation.
    - Used Python to build a monitoring tool for feature flag evaluation and performance data collection.
    - Used Python and Elixir scripts to automate feature flag data transformation and migration
  - **Result:** Result in organizational cost optimization and efficient transition to a new system for devs.
- **Customer Seller Program Project ("Get Paid Now")**
  - **Objective:** Increase customer consignment traffic.
  - **Implementation:** Consignor project workflows via backend API services and frontend client
    - Used Elixir (Dataloader, Absinthe, and Ecto for data fetch, transform and management)
    - Used GraphQL, Okta, and OpenSearch for API request handling, authentication, and search.
    - Used React (Redux for state management, Axios for API interaction and Apollo for GraphQL querying)
  - **Result:** Increase in user traffic and retention by 35%.

**The RealReal (San Francisco, CA)**

June 2021 – Aug 2021

Software Engineering Intern

- **TRR website consignor workflow pages refactor**
  - **Objective:** Refactor consignor workflow pages
  - **Implementation:** Refactored TRR client pages from Elixir Phoenix using React, Nextjs, Redux, Axios and Apollo.
  - **Result:** Increase in user consignment traffic and retention.

**Carlin Fit (Philadelphia, PA)**

May 2020 – Aug 2020

Software Engineering Intern

- **Purple Bug UV Light Cleaner companion app**
  - **Objective:** Develop ios/android mobile app for communication and pairing with UV light hardware component
  - **Implementation:** Implemented iOS app using Swift, Android app using Java/Kotlin and backend API services using Python
  - **Result :** Fully functional Beta versions of the app were available on Android/ios platforms.

## RESEARCH

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