

# Indrajeet Aditya Roy

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## EDUCATION

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

August 2018 - May 2022

Dean's List Spring 19, Spring 20, Fall 20, Spring 21, Fall 21

COMS 227 (Object-oriented Programming) TA

## SKILLS

**Programming Languages:** Java, C, Elixir, Ruby, Python, JavaScript

**Web Development:** Django, Flask, React, Rails, Phoenix, Spring

**Mobile Development:** Android, iOS

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

**SDE Tools:** Git, Docker, Docker-compose, VirtualBox

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

## EXPERIENCE

**The RealReal**

June 2022 – Present

**Software Development Engineer 1 (Part of the customer-growth team)**

- **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 services and frontend client.
    - Using Ruby Rails (Resque and Redis for job-queuing and caching)
    - Using Elixir (Dataloader, Absinthe, and Ecto for data fetch, transform and management)
    - Using GraphQL, Okta, and OpenSearch for API request handling, authentication, and search.
    - Using Python (Pandas and NumPy for data analytics and aggregation service)
    - Using React (Redux for state management, Axios for API interaction and Apollo for GraphQL querying, Segment)
  - **Result:** Increase in received inventory and sales generated revenue from customer appointments by 40%.
- **Internal Feature Flag Tooling**
  - **Objective:** Migrate organization Feature flag service from LaunchDarkly to Harness.
  - **Implementation:** Search and analytics workflows via backend services and Frontend client.
    - Using Python (Airflow, SQLAlchemy, Dask) and Elixir(Ecto, Oban, Broadway) built a tool for data consistency automation between dev environments (Review, Staging, Production).
    - Using python (datadogpy,bugsnag-python, requests) built a monitoring tool for feature flag evaluation and performance data collection.
    - Using Python and Elixir scripts automated feature flag data transformation and migration from LaunchDarkly to Harness.
  - **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 services and frontend client
    - Using Elixir (Dataloader, Absinthe, and Ecto for data fetch, transform and management)
    - Using GraphQL, Okta, and OpenSearch for API request handling, authentication, and search.
    - Using React (Redux for state management, Axios for API interaction and Apollo for GraphQL querying)
  - **Result:** Increase in consignor traffic and recieved inventory. Consignor retention increased by 60%.

**The RealReal**

June 2021 – Aug 2021

**Software Development Intern**

- **Consignor client workflow refactor**
  - **Objective:** Refactored consignor workflow pages
  - **Implementation:** Refactored Elixir Phoenix pages to React
    - Using React (Redux for state management, Axios for API interaction and Apollo for GraphQL querying)
  - **Result:** Increase in consignor traffic and retention.

## PROJECTS

- **Deanonymization and Denial-Of-Service attacks against the Tor Network.** Research paper investigating and analyzing vulnerabilities of decentralized networks and potential attack vectors or exploits. ([View Paper](#))