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.E. Software Engineering, Iowa State University   **August 2018 - May 2022**

SKILLS

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

Python frameworks: Pandas, Numpy, Matplotlib, Dask, SqlAlchemy, Keras, Tensorflow

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

Mobile Development: Android, iOS

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

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

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

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

Devops frameworks : Airflow

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 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 received inventory and sales generated revenue from customer appointments by 30%
- *Internal Feature Flag Tooling*
  - **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 consignor traffic and received inventory. Consignor retention increased by 35%.

The RealReal   **June 2021 – Aug 2021**
Software Development Intern
- *Consignor client workflow refactor*
  - **Objective:** Refactored consignor workflow pages
  - **Implementation:** Refactored Elixir Phoenix pages using React,Redux, Axios and Apollo.
  - **Result:** Increase in consignor traffic and retention.

Carlin Fit   **June 2020 – Aug 2020**
Software Development 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

Research paper investigating and analyzing vulnerabilities of decentralized networks and potential attack vectors or exploits. (View Paper)