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 (Artificial Intelligence & Machine Learning concentration)
Coursework: Supervised ML, Unsupervised ML, Artificial Intelligence, Deep Learning, Info Retrieval, Data Mining, Natural Language Processing

SKILLS

Programming Languages: Java, Python, C, C++, R, Elixir, Ruby, Javascript, Typescript, HTML5 & CSS3, Kotlin
Python Libraries: Pandas, Numpy, Matplotlib, Seaborn, Tensorflow, Keras, Scikit-image, Scikit-learn, Scipy, Pytorch, NLTK, XGBoost
Web Dev Framework/Libraries: Django, Flask, React (Axios, Apollo, Redux, ReactQuery), Next.js, Node.js, Rails, 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: Version Control (Git, GitBucket), Jenkins, Docker, Docker-compose, VirtualBox, Maven, Kafka
Cloud Platforms: AWS (API Gateway, Lamda, EC2, DynamoDB, RDS, S3, SQS, CloudTrail)

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 validation 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 feature launch.

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 post refactor.

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

- Deanonymization and denial-of-service (DoS) attacks against decentralized networks. (View Paper)