

# Anish Sahoo

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Available January-August 2026 | Open to Relocation

## EDUCATION

**Northeastern University - Khoury College of Computer Sciences** September 2023 – Present  
*Candidate for Bachelor of Science in Computer Science* Boston, MA

- GPA: 3.84/4.0, Expected Graduation: December 2026, AI Concentration, Honors: Dean's List (every semester)
- Relevant Courses: Database Design, Object-Oriented Design, Algorithms, Artificial Intelligence, Discrete Math, Operating Systems, Machine Learning, Reinforcement Learning, Software Engineering

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript, TypeScript, LaTeX, Kotlin, HTML/CSS  
**Technologies:** Spring, gRPC, REST, GraphQL, Apache Kafka, Node.js, Express.js, React.js, Apache Solr, JUnit 5  
**Databases:** MySQL, BigQuery, MongoDB, SQLite, Bigtable, PostgreSQL, Redis  
**DevOps/Tools:** Git, GitHub, Maven, Bash, Linux, Caddy Server, Maven  
**Cloud/Observability:** Google Cloud Platform (GCP), Kubernetes, Docker, NewRelic, Lightrun, Splunk  
**AI/Data Science:** PyTorch, NumPy, Gymnasium, Jupyter, PettingZoo, Matplotlib

## EXPERIENCE

**Priceline (Enterprise Data Products & Services Team)** January 2025 – June 2025  
*Backend Software Engineer Co-op* New York, NY

- Developed and maintained high-throughput REST and gRPC microservices in Java Spring for data products
- Engineered and deployed a Kafka-based hotel price monitoring system with high-throughput producer and consumer services, handling millions of events daily for real-time price tracking and notifications
- Designed and implemented a relevancy ranking algorithm to personalize user experiences based on past activity
- Enhanced existing recommendation and personalization projects, and built a proof of concept integrating Google Vertex AI Search Engine to replace in-house vector search system for more personalized chatbot interactions

**Northeastern University - Khoury College of Computer Sciences** January 2024 – December 2024  
*Undergraduate Teaching Assistant* Boston, MA

- Instructed 200+ students in Java and Kotlin through office hours, 1-on-1 appointments, and homework grading

**PawHacks** December 2023 – May 2024  
*Software Engineer/Organizer* San Francisco Bay Area, CA

- Collaborated with 15 classmates to host a hackathon with over 120 attendees and \$3000+ worth of prizes
- Created and deployed the full-stack [pawhacks.io](https://pawhacks.io) hackathon website with over 10000 visits

## PROJECTS

**KnightsArchersZombies (KAZ) | PyTorch, PettingZoo, Deep Reinforcement Learning** December 2024

- Devised a multi-agent version of the Proximal Policy Optimization (PPO) algorithm, inspired by the [PPO](#) and [MAPPO](#) papers, that enhances agent cooperation by integrating a shared actor-critic architecture
- Trained four agents in the KAZ environment to cooperate in zombie combat and achieve shared survival goals

**Map of Top Anime | JavaScript, Python, PixiJS, TensorFlow, MongoDB** July 2024

- Created a map visualizer of the top 5000 anime scraped from MyAnimeList using embeddings and t-SNE
- Implemented complex filtering mechanisms and search functionality using Apache Solr and rendering with PixiJS

**X Finance (X Developer Challenge) | Python, TypeScript, React, X API, xAI API** April 2024

- Collaborated with 3 teammates to engineer a web application that uses historical Tweet data and xAI's Grok-1 LLM to analyze public sentiment about stocks on X
- Scraped about 5000 tweets per query containing 1 of 10 AI-generated hashtags related to a stock

**Expiry Date Reminder | Java, SQLite, Android SDK, Android Studio** August 2022

- Developed an Android application that stores expiration dates and reminds the user if something is expiring soon
- Amassed over 4,500 downloads and a 4.5/5 star rating on the Google Play Store

## INTERESTS

Street Photography, Photo/Video Editing, Manga, Badminton, Travelling, Hiking