Anish Sahoo

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Available January-August 2026 | Local: Boston | Open to relocation anywhere in the United States

EDUCATION

Northeastern University   September 2023 – Present
Candidate for Bachelor of Science in Computer Science   *Boston, MA*
- GPA: 3.84/4.0 | Expected Graduation: December 2026 | AI Concentration | Dean's List (every semester)
- Relevant Courses: Software Engineering, Database Design, Object-Oriented Design, Algorithms, Artificial Intelligence, Operating Systems, Discrete Math, Machine Learning, Reinforcement Learning, Computer Vision

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, LaTeX, Kotlin, HTML/CSS
Technologies: Spring Boot, gRPC, REST, Apache Kafka, GraphQL, Node.js, Express.js, React.js, JUnit 5
Databases: MySQL, PostgreSQL, BigQuery, Bigtable, MongoDB, Redis, Elasticsearch, SQLite
Infrastructure: Google Cloud Platform, Git, CI/CD Pipelines, GitHub Actions, Docker, Maven, Linux, Splunk

EXPERIENCE

Priceline   January 2025 – June 2025
Backend Software Engineer Co-op   *New York, NY*
- Delivered personalization and recommendation features by building scalable REST and gRPC services in Spring, working cross-functionally with product, data, and 4+ engineering teams in an Agile environment
- Led integration and A/B testing of Google Vertex AI Search for the Penny chatbot's search service in coordination with Google engineers, improving result relevance by around 25% across two evaluation metrics
- Engineered and deployed a Kafka-based system for real-time hotel price tracking and notifications, streaming millions of daily events with high throughput and instrumented for observability using NewRelic and Splunk
- Designed and implemented a relevancy ranking algorithm to personalize user experiences based on past activity

Northeastern University   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   *Oakland, CA*
- Collaborated with 15 classmates to host a hackathon with over 120 attendees and $3,000+ worth of prizes
- Managed backend infrastructure and contributed to code for the pawhacks.io website with 10,000+ visits

PROJECTS

Anime Discovery Engine | *Java, Spring Boot, Elasticsearch, Redis, PostgreSQL, GraphQL*   June 2025
- Built a scalable recommendation system for personalized anime discovery using a Two Tower Model architecture
- Integrated PostgreSQL, Elasticsearch, and Redis using Spring Boot for a fault-tolerant, low-latency system for personalized search and recommendations on over 20,000 anime scraped from MyAnimeList
- Designed GraphQL layer for flexible data retrieval and implemented a rich data analysis interface using PixiJS
- Automated data ingestion, embedding generation, and multi-store syncing via robust Python ETL pipelines

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

X Finance (X Developer Challenge) | *Python, TypeScript, React, X API, xAI API*   April 2024
- Collaborated with small team to engineer a web application that uses historical Tweet data and xAI's Grok-1 LLM to analyze public sentiment about stocks on X during a major hackathon hosted at X Headquarters
- Configured Grok-1 to generate stock-specific hashtags and analyze sentiment from 5,000 scraped tweets per query

INTERESTS

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