Anish Sahoo

402-706-2827 | anishsahoo2005@gmail.com | asahoo.dev | linkedin.com/in/anish-sahoo | github.com/anish-sahoo
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*
- Built scalable REST and gRPC microservices in Spring, collaborating with product, data, and 4+ engineering teams to deliver recommendation and personalization features 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 hotel price monitoring system with high-throughput producer and consumer services, streaming millions of daily events for real-time price tracking and notifications
- 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