

# Anish Sahoo

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## EDUCATION

### Northeastern University

Bachelor of Science in Computer Science

September 2023 – December 2026

Boston, MA

- GPA: 3.84/4.0 | Relevant Courses: Software Engineering Consulting, Algorithms & Data Structures, Object-Oriented Design, Database Design, AI, Machine Learning, Reinforcement Learning, Computer Vision

## EXPERIENCE

### MasterControl

Incoming Software Engineer Intern, AI/ML

January 2026 - June 2026

Boston, MA

- Will build backend systems and AI/ML models in Python and PyTorch to deliver client-facing, production features

### Massachusetts National Guard (Northeastern Uni. Practicum)

September 2025 – December 2025

Lead Software Engineer

Boston, MA

- Led backend engineering, system design, and infrastructure for a team of 8 software engineers in developing a communications and mentor matching platform supporting 8,000+ troop members daily
- Architected RBAC policy engine with Redis caching, reducing auth latency by 70% during peak alerts
- Built scalable file ingestion and delivery system using AWS S3 presigned URLs and Web Push notifications
- Automated CI/CD and full-stack deployments with Terraform, GitHub Actions, and AWS ECS Fargate

### Priceline

Software Engineer Co-op, Backend

January 2025 – June 2025

New York, NY

- 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
- Delivered personalization and recommendation features using Spring Boot & Kafka, collaborating with 4+ teams
- Built Kafka pipeline for real-time hotel price alerts, streaming 1M+ events/day with high throughput
- Implemented relevance ranking to personalize results from user activity, boosting user re-engagement at scale

### Northeastern University

January 2024 – December 2024

Undergraduate Teaching Assistant

Boston, MA

- Instructed 500+ students in Java and Kotlin, dedicating 4+ hours weekly to office hours, fostering a collaborative learning environment focused on software development best practices

### PawHacks

December 2023 – May 2024

Oakland, CA

Software Engineer

- Managed backend infrastructure and contributed to code for the [pawhacks.io](https://pawhacks.io) website with 10,000+ visits

## PROJECTS

### AnimeDiscovery.com | Java, NextJS, Spring Boot, Elasticsearch, PostgreSQL, GraphQL

- Built a Two-Tower recommendation system for personalized anime discovery, processing 20,000+ entries weekly
- Developed Spring Boot and Python microservices with PostgreSQL, Elasticsearch, and Redis for low-latency, fault-tolerant search and recommendations, instrumented with Kibana and Grafana Cloud

### OpenLegislation (HackHarvard 2024 Winner) | JavaScript, Node.js, React.js, Transformers.js

- Led a team of 4 to build an AI-powered discovery platform that analyzes U.S. Congressional bill supporters, enhancing government transparency and civic engagement ahead of the 2024 presidential election

### X Finance (X Developer Challenge) | Python, TypeScript, React.js, X API, xAI API

- 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 hackathon at X Headquarters

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript, TypeScript, Kotlin, HTML/CSS

**Technologies:** Spring Boot, gRPC, Kafka, GraphQL, Node.js, React, NextJS, FastAPI, PyTorch, JUnit 5, Vitest

**Databases:** MySQL, PostgreSQL, BigQuery, Bigtable, MongoDB, Redis, Elasticsearch

**Infrastructure:** AWS, GCP, Git, CI/CD Pipelines, GitHub Actions, Docker, K8s, Maven, Linux, Splunk