Anish Sahoo

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EDUCATION

Northeastern University   September 2023 – December 2026
Bachelor of Science in Computer Science   *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   January 2026 - June 2026
Incoming Software Engineer Intern, AI/ML   *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   January 2025 – June 2025
Software Engineer Co-op, Backend   *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
- Developed 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
Software Engineer   *Oakland, CA*
- Managed backend infrastructure and contributed to code for the 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 via an ETL pipeline from MyAnimeList + HuggingFace MiniLM embeddings
- Implemented rate limiting and instrumented application using Kibana + Grafana Cloud, resulting in 95% uptime

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.js, PyTorch, JUnit 5, Vitest
Databases: MySQL, PostgreSQL, BigQuery, Bigtable, MongoDB, Redis, Elasticsearch
Infrastructure: AWS, GCP, Docker, K8s, Terraform, CI/CD Pipelines, GitHub Actions, Maven, Linux, Splunk