

KANAD NALESHWARKAR

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EXPERIENCE

Virginia Tech, Division of IT, Blacksburg, VA

May 2025 – Present

Application Developer

- Lowered infrastructure costs by 80% by redesigning an HR course-recommendation chatbot to run with a **local LLM** model with **vector search**, moving away from Amazon Personalize.
- Accelerated developer productivity by designing an event-driven **AWS Step Function** pipeline with parallel **Lambda functions**, reducing LTI app deployment times by 45x.
- Implemented course filters and dynamic navigation features in a **React** based admin dashboard for a Canvas LTI app, improving load performance and user experience.

Hansen Technologies, Pune, India

May 2023 – Aug 2023

Software Developer (Contract)

- Cut deployment time by 75% by automating CI/CD pipelines on **AWS** with **Docker**, **Kubernetes**, and **Jenkins**, improving release velocity and developer experience.
- Enhanced observability and incident response by setting up **Grafana** dashboards and **Prometheus** alerts, reducing resolution times for critical issues.
- Boosted system throughput by 300% by engineering a bulk reprocessing tool for failed telecom orders using **OpenSearch** and **Bash**.

Hansen Technologies, Pune, India

Nov 2020 – Dec 2022

Software Developer

- Led the first cloud-native deployment of Hansen's B2B platform on **AWS** for a top UK telecom provider serving 6M+ customers.
- Developed and scaled microservices in **Java (Spring Boot)** with **REST APIs** and **Kafka**, enabling reliable service-to-service communication at 10K events/sec throughput.
- Achieved 99.95% product uptime by managing cloud infrastructure on **Amazon EC2, EKS**, and **S3**, ensuring consistent performance under high demand.
- Optimized **Oracle** database **SQL** queries, improving response times by 40% and ensuring reliable management of customer data.

EDUCATION

Virginia Tech, Blacksburg, VA

Jan 2023 – Dec 2024

Master of Engineering, Computer Science

GPA: 3.8/4.0

Savitribai Phule Pune University, Pune, India

Aug 2016 – May 2020

Bachelor of Engineering, Computer Engineering

GPA: 7.5/10.0

PROJECTS

Electronic Theses and Dissertations Classifier

Aug 2023 – Jan 2024

Trained and deployed a document classifier, based on the **BERT** language model, for an information retrieval system managing 500,000+ scientific documents. Used Streamlit for frontend and **PostgreSQL** to store data. Deployed the application on a high-performance computing server with 160GB of GPU memory, reducing inference time by 70%, enabling near real-time document classification.

RepoRanger: An integration between GitHub and Discord

Jan 2023 – May 2023

Integrated GitHub and Discord APIs using **JavaScript** to streamline DevOps for teams with 20+ contributors. Automated CI/CD pipeline updates and issue tracking, reducing manual effort by 50%, enabling faster development cycles.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, SQL

Frameworks: Flask, Spring Boot, React, Node.js, NoSQL, PyTorch, TensorFlow

Tools/Platforms: AWS (EC2, S3, ECR, SageMaker), OpenSearch, Elasticsearch, Kafka, Git, Maven, Docker, Kubernetes, Helm, Jenkins, Kibana, Terraform, PostgreSQL, MySQL, DynamoDB, Postman, JIRA, ChatGPT API