

KANAD NALESHWARKAR

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EDUCATION

Virginia Tech, Blacksburg, VA
Master of Engineering, Computer Science and Applications

Jan 2023 – Dec 2024
GPA: 3.8/4.0

Savitribai Phule Pune University, Pune, India
Bachelor of Engineering, Computer Engineering

Aug 2016 – May 2020
GPA: 7.5/10.0

EXPERIENCE

Hansen Technologies, Pune, India

May 2023 – Aug 2023

Software Developer (Contract)

- Engineered a robust bulk order processing tool utilizing OpenSearch and Linux Shell scripting, achieving a 300% increase in the reprocessing speed of failed telecom orders, improving resolution time for over 1,000 daily orders.
- Improved team productivity by 25% and issue resolution time by 40% by collaborating with a team of business analysts to establish Standard Operating Procedures (SOPs) for debugging production code, ensuring consistent and streamlined operations.
- Shortened new hire training period by 50% by creating comprehensive, user-friendly product documentation on Confluence, enabling faster onboarding.

Hansen Technologies, Pune, India

Nov 2020 – Dec 2022

Software Developer

- Led the first cloud-native deployment of Hansen's telecom service provisioning product, tailored for the biggest telecom service provider in the UK, serving over 6 million customers.
- Streamlined broadband installation and update for customers by engineering high-performance order processing pipelines capable of handling 500 orders per second.
- Built RESTful APIs using Spring Boot, written in Java, enabling communication between front-end, backend systems, and third-party services, with a 99.9% reliability rate.
- Optimized event handling for peak loads of 10,000 events per second by architecting event-driven applications with Apache Kafka, designing robust topics, partitions, and consumer groups for scalable and asynchronous communication.
- Configured robust CI/CD pipelines with Docker, Kubernetes and Jenkins, automating the deployment process on Amazon Web Services and reducing the deployment time by 75%
- Achieved 99.95% product uptime by managing cloud infrastructure on Amazon EC2, EKS, and S3, ensuring consistent performance under high demand.
- Improved interactive React components to visualize order processing flows, enhancing understanding of complex workflows through dynamic, real-time updates.
- Optimized Oracle database queries, improving response times by 40% and ensuring reliable management of customer data.
- Performed unit and integration testing of the service provisioning product, attaining 90% code coverage, to ensure seamless functioning within the overall deployment.

OPEN-SOURCE CONTRIBUTION

Memray: Bloomberg's Memory Profiler for Python

Oct 2024

Devised a solution to inject JavaScript content into Jinja-based HTML templates in the reporting tool, enabling 100% offline functionality for air-gapped systems. This enhancement allowed Memray users to utilize bundled JavaScript libraries without relying on CDN links, improving accessibility and security compliance for environments with restricted internet access.

[GitHub Repo](#)

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.

[Report Link](#)

Ducky: A ChatGPT Backed Coding Assistant

Aug 2023 – Dec 2023

Developed a coding assistant leveraging the ChatGPT API and prompt-tuning, enabling developers to write, debug, and modify code with a 40% faster turnaround. Built a responsive Streamlit-based frontend and implemented a conversation history management system.

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.

[GitHub Repo](#)

TECHNICAL SKILLS

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

Frameworks: Flask, Spring Boot, React, Node.js, NoSQL, PyTorch, TensorFlow, scikit-learn, Hugging Face, Jupyter, OpenCV

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