SARTHAK NEGI

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PROFILE

Computer Science Engineering student with over two years of hands-on experience in backend development and distributed systems. Proficient in Python, Java and experience across DevOps, GenAI, and full-stack development. I enjoy working in collaborative environments and aim to apply my skills to build impactful engineering projects.

EXPERIENCE

Backend Developer | go, gin, mongodb, redis, gRPC   **Jan 2026 - Present**
GrexaAI (1M+ Active Users)   *Mumbai, India · On-site*

- Contributing to backend development across CRM, communications, and user services supporting **100+ enterprise** customers within a **distributed microservices architecture**.
- Implementing new features and resolving issues to improve **system stability and user experience**.
- Collaborating with engineers and product teams through **technical discussions and code reviews**, contributing to design decisions and overall product quality.

OpenLab Summer Student | python, bash scripting, S3, CI/CD, Openshift   **June 2025 – Aug 2025**
CERN - European Organization for Nuclear Research   *Meyrin, Switzerland · On-site*

- Selected as **one of the 38 students** out of more than 3400 students worldwide.
- Worked with the **CERN IT-SD-TAB team** to research and integrate an **S3-compatible interface** into the CERN Tape Archive (CTA).

Software Engineering Intern | javascript, node.js, github-action   **May 2024 - July 2024**
Keploy - API Testing Tool   *Bengaluru, India · remote*

- Led implementation of test case de-duplication, **reducing redundant tests by 70%** and improving code quality metrics.
- Implemented performance enhancements to improve scalability, reliability, and overall system efficiency.
- Identified performance bottlenecks and contributed to code reviews, improving runtime stability and maintainability.

Student Developer | CI/CD, bash scripting, Gitlab, test-automation   **Jan 2024 – April 2024**
KDE - KEcoLab: Energy Measurement Tool   *Berlin, Germany · remote*

- **Built automated tests** to regularly verify system behavior, helping catch issues early and maintain reliable results.
- Improved test scripts and resolved compatibility issues, ensuring consistent operation across Ubuntu and Fedora.

Linux Foundation Mentorship Intern | Go, Kubernetes   **Sept 2023 – Dec 2023**
Cloud Native Computing Foundation - KubeEdge   *San Francisco, California · remote*

- Built a feature enabling dynamic configuration of deployment settings (replicas, images, commands, env variables) based on node labels.
- **Optimized edge scheduling and traffic routing** by using node labels, network locality, and real-time performance signals to direct requests to the nearest healthy pods, **reducing latency by 40%**

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, Go, HTML/CSS, Shell Scripting
- **Web Development:** Next.js, Node.js, FastAPI, Flask, Spring Boot, Hibernate, gRPC
- **Databases:** MySql, PostgreSQL, MongoDB, Redis
- **Devops:** Docker, Kubernetes, Jenkins, Prometheus, Grafana, ArgoCD, Terraform, Kafka, AWS, Openshift

PROJECTS

DevSecOps Deploy Netflix Clone | Jenkins, AWS, Docker, Kubernetes, Helm, ArgoCD GitHub

- Designed and automated an end-to-end CI/CD pipeline using **Jenkins** to deploy a Netflix clone on **AWS EC2**, leveraging Docker, **Kubernetes**, and Helm for scalable container orchestration and integrated static security scanning tools to enforce code quality.
- Strengthened deployment security and observability by implementing **Trivy**-based vulnerability scanning and **Prometheus-Grafana** monitoring, resolving 36+ critical container vulnerabilities and enabling GitOps workflows with **ArgoCD**.

BookMyShow | Java, Spring Boot, Redis, Kafka, PostgreSQL, RBAC GitHub

- Built a scalable movie reservation backend with role-based access and concurrency-safe booking flows, integrating Redis caching and Kafka event processing to ensure consistent seat availability and high performance APIs.

TravelFY | Python, FastAPI, Next.js, Docker GitHub

- Developed an AI-powered travel planner that generates personalized itineraries based on user inputs, with a backend supporting itinerary creation, persistent storage, and seamless integration between AI logic and the user interface.

NutriFY | Python, FastAPI, LangGraph, OpenAI GPT-4 GitHub

- Built an AI-powered nutrition assistant that helps users plan meals based on their goals and preferences, designing a backend to coordinate multi-agent workflows, track meals in real time, and provide personalized nutrient guidance across 600+ food items.

CERTIFICATIONS

- **AWS Cloud Practitioner Essentials**
  - Gained foundational knowledge of core AWS services (EC2, S3, EBS, RDS, DynamoDB), networking, security (IAM, MFA), monitoring tools, global infrastructure, migration strategies, and cost optimization.
- **Introduction to Continuous Delivery and GitOps using Argo CD**
  - Gained **hands-on experience with GitOps-based continuous delivery** using **Argo CD and Helm**, applying pull-based Kubernetes deployment models, auto-sync, and health monitoring.
- **Supervised Machine Learning: Regression and Classification (Stanford)**
  - Applied supervised learning techniques to develop regression and binary classification models (linear & logistic regression) using Python, NumPy, and scikit-learn for real-world prediction tasks.
- **Certified Kubernetes Administrator (CKA) (Ongoing)**
  - Gaining hands-on experience with Kubernetes, working on cluster setup, upgrades, backups, and deployments and troubleshooting, networking, storage, and security components in production-like environments.

OPEN SOURCE WORK & ACHIVEMENTS

- **Member and Open Source Contributions** - Kubernetes and Kubernetes-Sigs
  - Being an org member I actively contribute to new features, bug fixes, write unit tests in Golang.
  - Served as a **Kubernetes Release Shadow v1.34**, collaborated with Release Leads and sub-teams.
- **Speaker: Open Source Summit Japan 2024**
  - Presented my LFX project work, where I explored improving Kubernetes workload placement using node labels and designed a feedback-driven traffic routing approach to reduce latency and make deployments more flexible

EDUCATION

Jaypee Institute of Information Technology, Noida, India **2022 - 2026**
Bachelor of Technology in Computer Science and Engineering

- **Relevant Coursework**: Database Management Systems, Operating Systems, Object-Oriented Programming, Computer Networking, Data Structures & Algorithms, Intro to Unix System, Computing of Data Science