

# Sachin Khoja

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## EDUCATION

- **Indian Institute of Technology, Kharagpur** Kharagpur, India  
*Ocean Engineering and Naval Architecture - Dual Degree; CGPA: 8.39* 07/2018 - 05/2023  
**Minor:** Mathematics and Computing **Micro Specialisation:** Artificial Intelligence and Applications

## WORK EXPERIENCE

- **National Health Authority** New Delhi  
*Software Engineer* 07/2023 - Present
  - **Overview:** Contributed to the development of the **ABDM** ecosystem, benefiting over 100M citizens of India.
  - Initiated development of face match API to enforce image updates with a 70% match threshold, enhancing security.
  - Designed a lightweight **flask-based microservice**, achieving a high throughput of 100k requests per second.
  - Architected AHIPR portal's backend in **Spring boot**, economizing over 100 man-hours in registration and verification.
  - Developed robust backend for CAPF mobile app using **go lang**, enabling MHA force members to efficiently track cases and queries, and created **Java Spring microservice** to reducing query response time by 30%.
- **TimelyAI** Bangalore  
*Software Engineer - Full Stack* 01/2023 - 07/2023
  - **Overview:** Streamlined **AWS** back-end services, cutting resource usage by 40%, and boosting conversions by 30%.
  - Enhanced data gathering process, allowing the team to focus on more strategic tasks, increasing leads by 30%.
  - Implemented real-time GBP profile completion feature by leveraging **web scraping**, enabling instant website updates and reducing manual workload for the ops team by 40 hours weekly.
  - Revamped a business portal by integrating user rankings against local peers, increasing user engagement by 25%.
  - Revolutionized daily leads extraction and business metrics data processing through **AWS Step Functions** and **Athena**, slashing processing time by over 70% using parallel processing and optimized queries.
- **Legato Health Technologies** Bangalore  
*Software Engineer - DevOps (Internship)* 05/2022 - 07/2022
  - **Overview:** Mastered containerization, orchestration, build automation, deployments, and CI/CD pipelines.
  - Automated builds and deployments triggered by git commits/merge using Bamboo and bitbucket, reducing time by 60%.
  - Integrated GitOps in Kubernetes using ArgoCD to enhance existing CI/CD pipeline by adding blue-green and canary deployments, making git a single source of truth and reducing rollback time by 60%.
  - **Tech:** Git, Docker, Kubernetes, Bamboo, GitOps, ArgoCD, Rollouts & Deployments, AWS, Scripting, Python
- **Spinny** Gurugram  
*Software Development Engineer (Internship)* 11/2021 - 05/2022
  - **Overview:** Engineered **micro-service** development for ML models and real-time data lakes, slashing time lag by 30%.
  - Implemented a hybrid collaborative and content-based filtering algorithm for car recommendations, integrating regular retraining cycles, and reducing costs by over 60% from the existing recommendation service.
  - Deployed the service as a **python gRPC** micro-service on AWS, reducing API latency by 50 ms.
  - Achieved a remarkable 40% increase in click-through rates on recommended cars, by integrating into the Django backend.

## SKILLS SUMMARY

- **Languages:** Python, C, C++, JavaScript, SQL, Java, Go, Bash
- **Frameworks:** Django, Flask, Spring boot, Scikit learn, ReactJs, gRPC
- **Tools/OS:** Kubernetes, Docker, Git, PostgreSQL, MySQL, Linux, AWS, Retool

## AWARDS AND ACHIEVEMENTS

- Achieved rating of 1848 on **Codechef** (invincible009) and 1501 (Specialist) on **Codeforces** (invincible.sachin.9).
- Qualified for **Meta Hacker Cup** Round 2 by securing a rank of 617 out of 27,603 in the qualifying round, 2022.
- Secured global rank of 1033 out of 23,644 in **Google Kick-start** Round E 2022 coding contest.

## RELEVANT COURSEWORK

Programming & Data Structures, Design and Analysis of Algorithms, Artificial Intelligence, Machine Learning, Object Oriented System Design, Database Management, Operating Systems, Deep Learning, Probability & Statistics