

# HARSH SONKAR

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## Education

**Sant Longowal Institute of Engineering and Technology**

*Bachelor of Engineering in Computer Science*

**Dec 2021 – Jun 2025**

*Sangrur, Punjab*

## Technical Skills

**Languages:** Java (17/21), C#, SQL (PostgreSQL/MySQL), C++, Python  
**CI/CD & DevOps:** Azure DevOps, Jenkins, Docker, Terraform, AWS Amplify, Git, Maven  
**Testing:** JUnit, Mockito  
**Backend & Security:** Spring Boot, Spring Security, Hibernate/JPA, REST APIs, Microservices  
**Cloud (AWS SAA):** EC2, S3, Lambda, RDS, DynamoDB, VPC, SQS/SNS, CloudFront  
**Fundamentals:** Data Structures & Algorithms, System Design, OOP

## Experience

**Cognizant Technology Solutions**

*Programmer Analyst - GN*

**Jul 2025 – Present**

*Bangalore*

*Enterprise Mobile Test Suite (Alaska Airlines)*

*.NET/C#, Appium, Azure DevOps*

- Designed and maintained robust automated test cases and test suites for mobile applications using Appium and .NET
- Executed and monitored Azure DevOps pipelines to run automation cycles and support continuous integration.
- Fixed existing issues within the automation framework and maintained overall test suite stability.

*CureCart (Internal E-commerce Project)*

*Java, Spring Boot, MySQL, Jira*

- Architected microservices using Java 17, optimizing logic for scalable high-volume access.
- Optimized MySQL schemas and queries via Spring Data JPA to enhance data retrieval speed.
- Secured application endpoints using Spring Security (RBAC) to protect sensitive user transactions.
- Orchestrated AWS deployments (EC2, RDS) using Docker to streamline environment provisioning.

## Projects

**Distributed Notification Service** | *Java, Spring Boot, Kafka, Redis, Docker* 🔒

**Jan 2026**

- Engineered a **Spring Boot** and **Kafka** engine processing **100k+ concurrent messages**.
- Implemented **Redis** rate-limiting to prevent API throttling and ensure system stability.
- Designed event-driven architecture to decouple delivery logic, reducing latency by **40%**.
- Containerized services via **Docker** and drafted **Terraform** scripts for AWS provisioning.

**Smart Attend (AI Attendance System)** | *Next.js, TypeScript, PostgreSQL, AWS* 🔒

**Dec 2024**

- Developed an attendance suite with **95% accuracy** using a custom proxy detection algorithm.
- Architected a **PostgreSQL** model to track analytics for **500+ daily user movements**.
- Integrated geo-location APIs to enforce presence, reducing manual verification by **50%**.
- Leveraged **AWS Amplify** for automated CI/CD pipelines and scalable serverless hosting.

**Serverless Cloud Architecture** | *AWS Lambda, DynamoDB, API Gateway, Route 53* 🔒

**Feb 2025**

- Architected a serverless visitor tracker using **AWS Lambda** to handle traffic spikes.
- Optimized delivery using **CloudFront** and secured domains via **SSL/TLS** certificates.

## Leadership & Extracurricular

**Cloud Club Captain** | *Amazon Web Services (AWS)*

**Feb 2024 – Present**

- Orchestrated workshops on **Lambda and Bedrock** for 60+ students, focusing on serverless and GenAI
- Mentored peers in cloud architecture and IAM security, fostering campus-wide AWS proficiency.

**Programming Head** | *SLIET Software Development Club*

**Aug 2023 – Nov 2024**

- Mentored 100+ students in **Data Structures & Algorithms** for technical interview preparation.
- Architected monthly coding contests and hackathons to promote a culture of competitive programming.

## Certifications

**AWS Certified Solutions Architect – Associate (SAA-C03)** | **AWS Certified Cloud Practitioner (CLF-C02)** 🔒

## Achievements

- Achieved **Global Rank 57, 96, 98** in Starters 129, 76, 84 on **Codechef**
- **Winner** in Ideation Phase of **Indian Web Browser Development Challenge** by MeitY, Govt. of India
- **Ranked 41** in the 2023 **ICPC Asia Amritapuri Doublesite Regional Contest**