

# SRISHTI SAURAV

## Software Engineer

Gurugram, Haryana

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### SUMMARY

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Software developer with experience in distributed cloud systems through AWS Analytics and strong programming expertise in C++, Python, & Dart/Flutter. Skilled in debugging, system-level analysis, and performance optimization, with a solid foundation in Operating Systems, Data Structures & Algorithms and Cloud. Passionate about building scalable backend systems and efficient, high-performance, and user friendly applications.

### SKILLS

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<b>Languages</b>	C/C++, Dart, Python, Bash
<b>Frameworks &amp; APIs</b>	Flutter, FastAPI, Pydantic
<b>Backend Development</b>	REST APIs, JWT Authentication
<b>Databases</b>	PostgreSQL, MySQL, MongoDB
<b>Cloud &amp; Distributed Systems</b>	OpenSearch, Apache Kafka, AWS services (OpenSearch, MSK, MSF, Q, Kinesis Suite, Kendra, AppFlow, S3, EC2, CloudWatch, CloudTrail, RDS, IAM, VPC, Lambda)
<b>Miscellaneous</b>	Linux, Docker, Git, JSON, YAML, Canva
<b>Non-Technical</b>	Writing, Leadership, Collaborative, Communication, Empathy

### WORK EXPERIENCE

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#### Cloud Associate - Analytics

Amazon Web Services | Gurugram

July 2024 - Nov 2025

- Provided technical troubleshooting and system diagnostics for distributed data systems across AWS services including Amazon OpenSearch, Amazon MSK (Kafka), Kinesis Data Analytics, Kinesis Firehose, Managed Streaming Flink, Amazon Kendra, Amazon Q Business, and AppFlow.
- Diagnosed and resolved complex customer issues involving streaming pipelines, cluster health, indexing performance, and data ingestion failures.
- Replicated customer environments to perform deep root-cause analysis and identify configuration or architectural issues.
- Conducted live debugging sessions with customers via calls and screen-sharing to troubleshoot production-impacting incidents.
- Reviewed system configurations, logs, and metrics to identify performance bottlenecks and stability issues.
- Authored internal knowledge base documentation to improve troubleshooting workflows and reduce case resolution time.

#### Cloud Associate Intern

Amazon Web Services | Remote

Mar 2024 - June 2024

- Completed structured technical training focused on Amazon OpenSearch and Amazon Managed Streaming for Kafka (MSK), developing expertise in cluster architecture, health diagnostics, indexing, and streaming data workflows.
- Trained in handling and troubleshooting real-world technical client projects, including cluster health issues, configuration errors, and performance-related incidents.
- Built an Amazon Lex-based chatbot to automate troubleshooting of OpenSearch cluster health states (yellow/red), improving the efficiency of internal diagnostic workflows.

#### Flutter Development Trainee

BizBrolly | Noida

Feb 2024 - Feb 2024

- Completed hands-on training in Flutter and Dart, focusing on OOP principles, modular architecture, and responsive UI design for mobile application development.
- Built "Apprenons-le-français", a gamified language learning app implementing quiz logic, scoring systems, interactive exercises, and reusable UI components.

## EDUCATION

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### Bachelor of Engineering in Computer Science & Engineering

KLE Technological University, Hubballi

Jan 2021 - July 2024

GPA: 8.4

**Relevant courses:** Data Structures & Algorithms, Operating Systems, Web Development, Databases, Software Engineering, Cloud Computing, AI & ML, Big Data

## CERTIFICATES

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**AWS Solutions Architect Associate (SAA-C03)** [🔗](#)

May 2024 - May 2027

**AWS AI Practitioner (AIF-C01)** [🔗](#)

Aug 2025 - Aug 2028

## PROJECTS

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### Biblo – Reading Tracker App (Ongoing)

[GitHub Repository](#)

**Tech Stack:** Flutter, Python, PostgreSQL

- Developing a Flutter-based Android reading tracker with user authentication, profile management, and interactive dashboards for tracking reading habits and progress.
- Implementing a Python backend with PostgreSQL for data storage, retrieval, and user activity analytics.
- Designing an ML-based recommendation system to suggest books based on user reading patterns and preferences.

### Apprenons-le-français – Gamified French Learning App

[GitHub Repository](#)

**Tech Stack:** Flutter, Dart

- Built a gamified language learning mobile application using Flutter with interactive exercises including word matching, multiple-choice questions, and keyboard-based inputs.
- Implemented scoring logic and performance tracking to monitor user progress and reinforce learning outcomes.
- Designed a clean, responsive UI and modular quiz architecture to ensure smooth user experience and maintainable code structure.

### Vehicle-to-Infrastructure (V2I) Traffic Simulator

[GitHub Repository](#)

**Tech Stack:** Python

- Designed and implemented a Python-based Vehicle-to-Infrastructure (V2I) traffic simulator to analyze road traffic flow and optimize signal coordination.
- Developed algorithms to reduce vehicle waiting time and carbon emissions, modelling interactions between vehicles and infrastructure for data-driven traffic management.

### OpenSearch Troubleshooting Chatbot

[INTERNAL]

**Tech Stack:** Amazon Lex, AWS OpenSearch

- Developed an Amazon Lex based chatbot to automate troubleshooting workflows for Amazon OpenSearch cluster health states (yellow/red).
- Implemented guided diagnostic flows based on AWS troubleshooting templates to assist in identifying configuration or shard allocation issues.
- Improved efficiency of system diagnostics by standardizing initial debugging steps for distributed search cluster incidents.

### Dash – Shop in a Dash (E-Commerce Prototype)

[GitHub Repository](#)

**Tech Stack:** C, Data Structures

- Developed a console-based e-commerce prototype in C implementing core functionalities such as product browsing, cart management, and order simulation.
- Applied data structures for product storage, search, and retrieval, demonstrating system-level programming and algorithmic problem-solving.
- Designed modular program components to simulate a simplified online shopping workflow.

## LANGUAGES

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- English (Fluent)
- Hindi (Native)
- French (A2)

## HOBBIES

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- Reading
- Creative Writing
- Building Android Apps
- Travelling