

Saransh Kumar

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EDUCATION

Amity University, Noida

B.TECH IN CSE

2019 - 2023

CGPA: 8.41, Major GPA: 9

LINKS

Website:// saransh.pro

GitHub:// [CryptoSingh1337](https://github.com/CryptoSingh1337)

Linkedin:// [saransh-kumar-2k19](https://linkedin.com/in/saransh-kumar-2k19)

Medium:// [CryptoSingh1337](https://medium.com/@CryptoSingh1337)

SKILLS

Java • JavaScript • TypeScript

Go • Spring • Spring Boot

Hibernate • Vue.js • Nuxt.js

HTML • CSS • Tailwind CSS

Git • GitHub • Docker

MySQL • MongoDB • AWS

Linux • Shell scripting

PUBLICATIONS

Design of cloud based video sharing platform using Machine Learning ([paper link](#))

Comparing Deep Learning and Traditional ML for Detecting Spam and Trolls on Video Sharing Sites ([paper link](#))

ACHIEVEMENTS

Employee of the month at **LoadShare Networks** for the month of February, 2024.

Selected from **15,000+** participants for **Smart India Hackathon 2022** Grand Finals.

CERTIFICATIONS

Spring Framework 5

Java Programming
Masterclass

Linux For Developers

The Complete 2020 Web
Development Bootcamp

Java Programming: Solving
Problems with Software
(with Honors)

WORK EXPERIENCE

LoadShare Networks | SOFTWARE ENGINEER (BACK-END DEVELOPER)

July 2023 - Present

- Owner of a financial service that oversees financial functions for both hyperlocal and non-hyperlocal segments, including withdrawal, COD deposit, earnings computation etc.
- Developed a flexible, **Java**-based workflow framework with built-in retry logic and support for third-party integrations like **GitHub** and **Jenkins**, currently used for rate card deployment and aiding LoadShare's transition to a SaaS model in the logistics space.
- Automated non-platform rider's earning calculation in real-time using **Google App Script** and **Google Sheets**.
- Introduced a transaction history feature in Rider app to provide clear visibility about rider's earnings and withdrawals.
- Created a configuration-based point system to incentivize riders to deliver orders, reduced the cost per batch by **15%**.
- Designed and implemented a ticket management microservice, decreased issue resolution time by **35%**.
- Created grievance system's proof of concept, used **state-machine architecture** and built new flows for auto-ticket resolution.
- Stack - **Java, Python, Spring Boot, Hibernate, MySQL, AWS, GitHub Actions**

Amadeus | SOFTWARE ENGINEERING INTERN

February 2023 - June 2023

- Integrated **OpenAPI** specification in API code generation flow.
- Wrote a pipeline to deploy the API on the **Azure Function App** using **GitHub Actions, Terraform, and Terragrunt**.

LoadShare Networks | SOFTWARE ENGINEERING INTERN

June 2022 – September 2022

- Developed COD microservice, increasing orders by **30%**, and developed an API for zone configuration which improved the operational efficiency.
- Resolved dependency conflicts in the **POM** file, upgraded to **Spring Boot 2**, and migrated the deployment from WAR to JAR.

PROJECTS

Serpent Clash

DEMO | [GITHUB](#)

A 2D multiplayer snake game (work in progress)

- Ticker based authoritative server (60-tick) i.e., all simulation happens on server-side on each tick.
- Uses Websocket for bi-directional communication over TCP, 2D HTML canvas to render players on client-side.
- Smooth player movement using interpolation, client-side prediction and server reconciliation to synchronize player state between client and server.
- Support finite world with dynamic field-of-view which keeps player in the center of the screen.

Tech stack: Go, Websocket, Vue.js, HTML Canvas, Tailwind CSS

VidFlow

[GITHUB](#)

An open source video sharing platform

- Implemented features like infinite scroll, material design, pagination, **JWT** authentication, and role-based endpoint security.
- Manages users' watch history, liked videos, subscribed channels, and provides content recommendations, real-time spam filtering through **AWS Lambda**.

Tech stack: Java, Spring Boot, MongoDB, Azure, AWS, TypeScript, Nuxt.js