

# Karan Loona

## Software Engineer

Full-Stack Software Engineer with 4+ years of experience building scalable web applications and microservices using NestJS, React, AWS, and Kubernetes. Skilled in backend architecture, frontend development, E2E test automation, and cloud-native deployments.

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## WORK EXPERIENCE

### Software Engineer - (Full Stack)

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09/2023 - Present

#### Achievements/Tasks

- Architected and delivered scalable microservices using NestJS within a distributed system, enabling seamless scalability and faster feature delivery.
- Built a high-performance timesheet service by migrating from REST API to gRPC, improving api response time by ~200 ms.
- Built and maintained E2E test suites with WebdriverIO, increasing test coverage by 60% and reducing manual QA efforts.
- Created an internal UI library of reusable components, adopted by all team members, improving development efficiency by 50%
- Optimized PostgreSQL queries and indexing with API design best practices, boosting backend performance and cutting API response times by up to 45% in high-traffic modules.

### Product Engineer - (Full Stack)

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11/2021 - 09/2023

#### Achievements/Tasks

- Created scalable RESTful APIs using NestJS and Kafka, supporting real-time data communication in a microservices environment.
- Deployed services to AWS EKS with Docker; automated deployments via CI/CD pipelines using GitHub Actions.
- Set up log aggregation and monitoring tools, cutting debugging time by 3x and reducing production outages.

## PROJECTS

### Advance Template (05/2019 - 11/2022)

- Built an open-source platform with live template previews and free downloads, cutting frontend developer workload by 60%, while following backend best practices for scalable API development.
- Implemented optimized caching, SQL/PostgreSQL queries, and CDN delivery, reducing template load time by 45%.

### Alumni Portal (09/2020 - 11/2023)

- Designed and implemented in codeigniter framework with MySQL, integrated, PayUMoney payment gateway, and deployed the system on cloud infrastructure for 6000+ active users.

## EDUCATION

### Computer Science and Engineering

Baba Farid College, Bathinda

08/2018 - 06/2022

8.0 CGPA

## SKILLS



## ACHIEVEMENTS

Winner, HackCUP 1.0 Hackathon organized by CUP & Microsoft Student Partners.

State Winner, Web Design (World Skills 2022 qualifier), organized by Punjab Govt.

Second Position in IT-Illusion web designing competition organized by department of IT & CSE, BFGI

2 times winner of VIBGYOR 2K19 and 2K20 web development competition, In International Annual Tech Fest of BFGI.

Bronze Medalist, Men's Singles – Inter-college Badminton Tournament (MRSPTU).

## CERTIFICATES

Data Structures and Algorithm in C++  
(02/2021 - 06/2021)

<https://students.codingninjas.com/verify/a6d73b3d3f855e70>

Web Development (07/2019 - 04/2020)  
Samrat Technologies, Muktsar

## LANGUAGES

English

*Full Professional Proficiency*

Hindi

*Full Professional Proficiency*

Punjabi

*Full Professional Proficiency*

## INTERESTS

Cricket

Badminton

Music

Travelling