

# SACHIN KUMAR

## Backend Engineer – Node.js/NestJS | DevOps & Automation Focus

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## SUMMARY

Backend Engineer specializing in Node.js, NestJS, and backend automation, with a track record of building high-performance, scalable systems. Proficient in designing RESTful APIs, optimizing PostgreSQL databases, and managing backend infrastructure. Experienced with DevOps practices including containerization, scripting, and basic CI/CD. Focused on delivering practical, maintainable solutions and continuously learning in a collaborative engineering environment.

## EXPERIENCE



### Backend Engineer – Trading Automation & Infrastructure

#### Sprout Investments

01/2023 - 03/2025 Chandigarh, India

An asset management firm focused on creating trading bots for stock market analysis and automated portfolio optimization.

- Developed and optimized automated order placement systems, reducing trade execution latency by **30-40%**, ensuring fast and error-free execution.
- Designed and deployed machine learning models (classifiers/regressors), improving trading accuracy by **20-25%** in volatile markets.
- Designed APIs and micro-services that handled **75% more** trading volume, enabling real-time data processing.
- Optimized PostgreSQL queries and schemas, cutting data retrieval time by **40%**, improving system throughput.
- Led and mentored a team of **3+ junior developers**, cutting bug resolution time by **35%** and ensuring the system ran smoothly.



### Full Stack Software Developer

#### Audio Intakes

09/2021 - 12/2022 Amsterdam, Netherlands (Remote)

<https://www.audiointakes.com/>

Online Recruitment Company which helps recruiter interview and shortlist candidates seamlessly.

- Built React.js based audio interview platform using WebRTC and WaveSurfer, enabling smooth recording, playback, and storage of audio blobs.
- Developed secure RESTful APIs for user auth and CRUD operations on candidate/recruiter data.
- Improved frontend performance and memory usage, delivering a faster, app-like experience.
- Implemented unit and E2E testing to boost reliability and streamline deployment cycles.
- Fixed bugs, shipped enhancements, and published updates to internal NPM packages.



#### Tech Intern at SpeEdLabs

07/2021 - 08/2021 Indore, India

- Developed full stack web application to integrate their products at one place.
- Enhanced and optimized codebase for their 2 MERN stack products namely e-Kart and LIVE Classes.
- Developed and optimized multiple login system.

## EDUCATION

### Bachelor of Engineering in Computer Science

#### Chitkara University

08/2019 - 05/2023 Baddi, Himachal Pradesh, India

## SKILLS

### Backend & API Development

Node.js, NestJS, Express.js, REST APIs, Microservices, PostgreSQL, MongoDB, MySQL, Redis, WebSockets

### DevOps & Infrastructure

Docker, Docker Compose, Linux Server Management, Windows VPS Management, AWS (EC2, S3), Nginx, PM2, GitHub Actions, CI/CD Pipelines, Deployment Automation, Cron Jobs, Monitoring & Logging, YAML

### Languages & Scripting

JavaScript, TypeScript, Python, Shell Scripting

### Security & Best Practices

JWT Authentication, Role-Based Access Control (RBAC), Helmet.js, Secure API Design, Auth Hardening, OWASP Best Practices

### Testing & Tools

Git, GitHub, Postman, Swagger, Unit Testing, E2E Testing, Jest, NPM

### Frontend (Supportive)

React.js, HTML, CSS, Theme UI, Material-UI, WebRTC, WaveSurfer, PeerJS

### Previously Used

PHP, Java, MQL5, Scikit-learn, DLL Integration, C, C++

## PROJECTS

### SecurePaste - text hosting service

05/2025 - Present

<https://securepaste.coderadiant.com/paste/7361b6a7-0a3d-47d8-84af-04a6fc2ccb3e>

Backend project using NestJS and PostgreSQL with logging, security middleware, and database optimization, achieving 99.9% uptime.

### Online Examination Portal - MERN Stack -

12/2020 - 04/2021

<https://shredtest.coderadiant.com/test?passcode=MCTE171828>

A complete stable - efficient - strict platform to conduct online assessments. Supports MCQs, Coding and web-Programming Questions

### Coding Community Page - LAMP Stack

03/2020 - 06/2020

a web community page where coders can discuss their codes and get community support to fix technical bugs