

# Shubham Gupta

## Software Engineer

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[🔗](#) Portfolio

### [👤](#) Profile

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Software engineer with ~4 years of experience building scalable, high-performance web applications, specializing in OTT platforms and video playback systems. Strong expertise in JavaScript (ES6+), TypeScript, React.js, and Node.js, Java with hands-on experience optimizing video player performance, memory usage, and UI responsiveness. Proven collaborator in Agile/Scrum teams, delivering well-tested, consumer-facing features used by millions of users.

### [📁](#) Professional Experience

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#### NeuralGarage

20/2025 - Present

##### Software Engineer

Bengaluru, India

- Developed full-stack product features including a dynamic blog system with secure authentication and role-based access.
- Contributed to a video editor application by implementing timeline handling, playback state management, and clip operations such as split, trim, and seek.
- Managed synchronization between video and audio tracks to ensure smooth playback and accurate editing behavior.
- Revamped application architecture to improve performance, usability, and maintainability.
- Owned key frontend modules, resolved critical production issues, and collaborated with cross-functional teams to deliver features on time.
- Optimized UI flows and product pages, resulting in faster load times and improved user engagement.

#### Zee5 (Zee Entertainment Enterprises Ltd)

05/2022 - 01/2025

##### Software Development Engineer

Bengaluru, India

- Developed and optimized web video playback experiences for a large-scale OTT platform serving millions of users.
- Built high-performance React.js and TypeScript components for player UI, content rails, and playback journeys.
- Improved video startup time, buffering stability, and UI responsiveness through performance and rendering optimizations.
- Collaborated closely with UX designers, product managers, and backend teams to deliver best-in-class streaming features.
- Implemented unit and integration tests using Java Selenium, reducing regression issues and improving release quality.
- Used data, logs, and experimentation to validate product changes and enhance viewer engagement.
- Worked in Agile/Scrum workflows, contributing to sprint planning, code reviews, and continuous delivery pipelines.
- Contributed to CI/CD pipelines using GitHub Actions and followed best practices for maintainable code.

## Skills

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### Languages

JavaScript, TypeScript, Java

### Video & Streaming

Web Video Playback, HTML5 Video, HLS & DASH concepts, WebRTC (fundamentals)

### Tools

GitHub, JIRA, Confluence, MS Teams

### Frontend

React.js, Nextjs, Redux, Tailwind CSS, HTML5, CSS

### Backend

Node.js, Express.js, REST APIs

### Testing

Jest, Selenium, Unit & Integration Testing

## Projects

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### Video Streaming Player [↗](#)

Custom video player supporting HLS and DASH playback with adaptive quality switching. Implemented streaming workflows including manifest handling, buffering states, playback error handling, and integration with a backend video streaming service for media delivery and playback control.

### Video Streaming Service [↗](#)

Backend service responsible for video ingestion, storage, and delivery. Implemented media streaming workflows including video upload handling, manifest generation, stream preparation, and secure media delivery to the player. Designed to support scalable streaming use cases and seamless integration with frontend video players.

### AI Image Generator [↗](#)

Full-stack application with authentication, cloud image storage, and asynchronous image generation workflows.

## Education

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### Master of Computer Applications (MCA)

*Integral University, Lucknow*

### Bachelor of Computer Application (BCA)

*Swami Vivekanand Subharti University, Meerut*