

# VISHAL SHUKLA

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## OBJECTIVE

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Leverage 8.5+ years of full-stack development experience to excel as a Lead Developer, driving innovative solutions through proficiency in front-end (JavaScript, HTML, CSS, Angular), back-end (Node.js, Express), cloud (AWS, Azure), DevOps, and database management. Proven ability to mentor teams, conduct code reviews, implement CI/CD pipelines, and deliver high-quality, scalable code rapidly using Agile methodologies. Committed to fostering organizational growth through efficient, customer-centric development practices in a collaborative environment.

## EDUCATION

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BSc. in Computer Science, Mumbai University, 2014

## PROFESSIONAL SUMMARY

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- Proficient in front-end development using JavaScript (**ES6+**), **TypeScript**, **HTML5**, **CSS3**, **Sass/SCSS**, **Angular**, **RxJS**, **NgRx**, **Redux Toolkit**, **Bootstrap**, **JQuery**, **Webpack**, **Gulp**, **npm**, and **yarn**.
- Experienced in leveraging cloud platforms (**AWS**, **Azure**, **DigitalOcean**) and implementing DevOps practices (**CI/CD**, **Github Actions**).
- Skilled in back-end development using **Node.js (Express.js)**, **RESTful API design**, **microservices architecture**, and **design patterns (Factory, Singleton, Repository, ServiceLocator, Builder)**.
- Expertise in database management with MySQL and Redis.
- Adept at version control using **Git**, **GitHub**, and **CI/CD pipelines**.
- Knowledgeable in web server configuration (**Nginx**) and messaging libraries (**ZMQ**).
- Proven ability to take ownership, collaborate effectively and drive project success through strong problem-solving, communication, and leadership skills.
- Advocate of clean coding practices, applying design patterns like **Factory** (for creating objects based on a given criteria), **Singleton** (for creating a single instance of a class), **Repository** (for abstracting data access logic), **ServiceLocator** (for decoupling the client from the service implementation), and **Builder** (for constructing complex objects step by step) for maintainable and scalable solutions.
- Experienced in implementing config-driven UI architectures, enabling dynamic and flexible user interfaces based on configuration data.

- **Contributed to the open-source Wave.js library** (<https://github.com/foobar404/Wave.js/>), an audio visualizer library for JavaScript that creates dynamic animations reacting to audio files or streams.

## TECHNICAL SKILLS

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<b>Front-End Technologies</b> <ul style="list-style-type: none"><li>- <b>Core:</b> JavaScript (ES6+), TypeScript, HTML5, CSS3, Sass/SCSS</li><li>- <b>Frameworks:</b> Angular</li><li>- <b>State Management Library:</b> RxJS, NgRx, Redux Toolkit</li><li>- <b>UI Library:</b> Bootstrap, JQuery</li><li>- <b>Build Tools:</b> Webpack, Gulp, npm, yarn</li></ul>	<b>Back-End Technologies</b> <ul style="list-style-type: none"><li>- Node.js (Express.js)</li><li>- RESTful API Design</li><li>- Microservices Architecture</li></ul>
<b>Cloud &amp; DevOps</b> <ul style="list-style-type: none"><li>- AWS (EC2, S3, Bedrock)</li><li>- Azure (Web App)</li><li>- DigitalOcean (Droplet, Storage)</li><li>- Github Actions</li></ul>	<b>Database</b> <ul style="list-style-type: none"><li>- MySQL, Redis</li></ul>
<b>Version Control</b> <ul style="list-style-type: none"><li>- Git, Github, CI/CD</li></ul>	<b>Messaging Library</b> <ul style="list-style-type: none"><li>- ZMQ</li></ul>
	<b>Operating Systems</b> <ul style="list-style-type: none"><li>- Linux, Ubuntu and Windows</li></ul>
	<b>Web Server</b> <ul style="list-style-type: none"><li>- Nginx</li></ul>

## WORK EXPERIENCE

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1. [Persistent Systems](#): From April 2022 to till date (Senior Engineering Lead).
2. [Ting](#): From June 2017 To April 2022( Sr. Software Developer).
3. [Togglehead](#): From June 2015 – June 2017.

## PROJECT PORTFOLIO

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**Working as Senior Engineering Lead with Persistent Systems Pvt. Ltd. from April 2022 to Present.**

**Company Name:** Persistent Systems

**Role:** Senior Engineering Lead

**Duration:** April 2022 - Present

**Project:** [Studiobit](#) - Advanced Live Streaming and Content Repurposing Platform

## Project Overview

Developed Studiobit, a cutting-edge live streaming and recording platform that simplifies content creation and distribution for content creators (YouTubers, streamers, podcasters, educators, etc.), businesses (Marketing teams, sales teams, customer service, internal communication), and organizations (Non-profits, educational institutions, communities.). The platform integrates advanced features such as Live Stream, Multistreaming, Recording, Branding, AI-driven content repurposing, and robust engagement tools.

## Key Responsibilities and Achievements

### Live Streaming and Recording:

- Implemented **multistreaming capability**, enabling users to broadcast simultaneously on multiple platforms (**Facebook, YouTube, LinkedIn, Twitch, Twitter**) using their api.
- Integrated **pre-recorded streaming** functionality for scheduling and streaming pre-made videos.
- Developed **real-time stream customization** features, **including overlays, logos, and backgrounds using canvas and websockets** and **config driven ui** and Enabled background replacer for video using **@mediapipe/selfie\_segmentation** .
- Engineered **high-quality remote guest integration** for seamless interviews and collaborations.
- Incorporated **screen sharing and live recording** features for enhanced audience engagement and content archiving using **webrtc**.
- Implemented controlled and customized Audio Visualizers for audio streams using **wave.js** and **Firebase**.

### Audience Engagement and Analytics:

- Designed **event scheduling** and **invitation system** for guests and audience.
- Implemented **public and private chat** features for **real-time interaction using getstream.io**.
- Integrated **social media comment feeds** to consolidate audience feedback.
- Enabled **direct social media sharing** to boost audience reach and engagement.

### Production and Branding:

- Created a **customizable branding system** with **overlays, logos, and backgrounds**.
- Utilized **AI to generate closed captions and transcripts**, enhancing accessibility using **<https://github.com/openai/whisper>**.
- Leveraged **AI for automated content repurposing, generating topics, blog posts, and short-form videos** from event recordings using **aws bedrock**.
- **Sharing of AI-generated content** on social platforms (Twitter, Facebook, LinkedIn).

### Additional Features:

- Custom RTMP destinations: Stream to any platform that supports RTMP.

- Phone support – Join as audio only Guest and Audience
- Added Billing system **using redux toolkit**

**Impact:**

- Streamlined content creation and distribution, saving time and resources for users.
- Increased audience reach and engagement through multi platform streaming and AI-driven content.
- Enhanced brand consistency and professionalism with customizable branding tools.
- Improved content accessibility and repurposing efficiency with AI-generated captions and derivatives.

**Technical Skill Utilized:**

<p><b>Client Side:</b></p> <ol style="list-style-type: none"> <li>1. User Interface: CSS, HTML</li> <li>2. Programming Language: JS (JavaScript), Web Assembly (WA), Angular</li> <li>3. Communication: WebSocket, HTTPS</li> <li>4. Media Stack: WebRTC</li> <li>5. Third Party Libraries: Wave.js, croppie.js, jQuery</li> <li>6. SaaS: Firebase, getstream.io</li> <li>7. Browsers: Chromium-based browsers (Chrome, Edge, Brave, Firefox)</li> <li>8. Devices: Desktops, Laptops, Tablets, Mobile Phones</li> </ol> <p><b>Operating Systems:</b></p> <ol style="list-style-type: none"> <li>1. Ubuntu</li> <li>2. CentOS 7</li> <li>3. Windows</li> </ol>	<p><b>Server Side:</b></p> <ol style="list-style-type: none"> <li>1. API Proxy: Kong API Gateway</li> <li>2. Web Server: Microsoft IIS</li> <li>3. Communication: WebSocket, HTTPS, ZeroMQ, SIP</li> <li>4. Programming Languages: Node.js, .NET, C++, C</li> <li>5. Databases: MS SQL Server, MongoDB, Cassandra</li> <li>6. Storage: AWS S3, NAS, Redis, Google Firebase</li> <li>7. Third Party Libraries: OpenAI Whisper, ZeroMQ, FFmpeg, Kutt, Poco C++, SQLAPI++, jwt</li> <li>8. Social Network Integrations: YouTube, Twitch, Facebook</li> <li>9. SaaS: Google Firebase, getstream.io</li> </ol> <p><b>Infrastructure:</b></p> <ol style="list-style-type: none"> <li>1. AWS: EC2, Bedrock</li> <li>2. On-Premises: VMware (VM)</li> </ol>
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**Worked as Senior Developer with Ting from June 2017 to April 2022.**

Company Name: [Ting](#)  
 Role: Senior Developer

Duration: June 2021 - April 2022

### **Project Description**

Led the development of high-profile sports team websites, delivering seamless user experiences and real-time sports data integration. Built comprehensive platforms for cricket teams using Next.js for the frontend and Angular, Node.js, MySQL for the backend. Created custom components with pure CSS and integrated the SportMonk API for live scores, fixtures, and team details. Implemented various content types and blogs to enhance user engagement. Secured APIs with JWT authentication and deployed applications using Nginx. These projects significantly improved site performance and fan interaction. Developed a user-friendly online platform that allows cricket fans to seamlessly purchase tickets for Sunrisers Hyderabad's home matches, offering a convenient and secure ticketing experience.

### **Key Responsibilities and Achievements:**

- Developed Live Score Functionality: Implemented real-time score updates and match statistics for cricket matches, ensuring seamless user experience.
- Developed Teams Players and Fixture Functionality implemented using SPORTSMonk API: Integrated SPORTSMonk API to fetch and display team rosters, player profiles, and upcoming match fixtures.
- Implemented Ticketing System: Developed a secure and user-friendly online ticketing platform for cricket fans to purchase match tickets conveniently.
- Developed CMS for Frontend for blogs, videos, and gallery: Created a Content Management System (CMS) to manage and publish blogs, videos, and photo galleries, enhancing user engagement.
- Performed Cross-browser testing: Ensured compatibility and consistent user experience across various web browsers.
- Handled Git and Server management: Managed code repositories using Git and handled server deployments and configurations.
- Deployed applications on EC2 Instance AWS: Deployed and maintained applications on Amazon Web Services (AWS) Elastic Compute Cloud (EC2) instances.

### **Technical Skill Utilized:**

HTML, Javascript, CSS, Angular, Node, Express, MySQL

**Project Name:** <https://www.avendus.com/>

Company Name: [Ting](#)

Role: Senior Developer

Duration: \*\* Dec 2020 - June 2021

The project involved developing various informative websites and leadership, blogs, and transactions for Aventus. Worked on various backend parts [CRUD for blogs, leadership management, and transactions]. Integrated and implemented the global search using Algolia. Built customizable datatable.

### **Key Responsibilities and Achievements:**

Created Internal transaction reporting using Angular, Node.js, and MySQL: Developed an internal reporting system for tracking and analyzing financial transactions, leveraging Angular for the frontend, Node.js for the backend, and MySQL for the database.

Developed public-facing websites consisting of blogs, galleries, articles, and news: Built and maintained the company's public-facing websites, incorporating engaging content such as blogs, image galleries, articles, and news updates to enhance user experience and brand visibility.

Developed a voting system where customers can upload their projects and research ideas, view votes and scores on the dashboard (protected by email authentication): Implemented a secure voting platform enabling customers to submit their projects and research ideas. Customers could view real-time vote counts and scores on a protected dashboard accessible through email authentication, fostering engagement and innovation.

Performed cross-browser testing: Conducted thorough testing to ensure consistent user experience and functionality across various web browsers and devices, maintaining compatibility and accessibility.

Handled Git and server management: Utilized Git for version control and collaborated with team members on code repositories. Managed server configurations, deployments, and maintenance tasks.

Involved in code creation and requirement gathering based on functionalities: Actively participated in the development process, writing clean and efficient code while closely collaborating with stakeholders to gather and understand functional requirements.

### **Some of the frontend/backend projects are there in the portfolio attached with this resume**

1. TING
  - a. <https://www.vedantalimited.com/>
  - b. <https://supreme.co.in/>
  - c. <https://waterfieldadvisors.com/>

- d. <https://www.nippo.in/>
- e. <https://waterfieldadvisors.com/>
- f. Space Valet
- g. <https://interiseworld.com/>
- h. <https://www.supreme.co.in/>

## 2. TOGGLEHEAD

- a. Red Architects
- b. <http://gehnajewellers.com/>
- c. You We Can
- d. Mommy Network
- e. AZB Partners
- f. J.B. Petit Alumni
- g. Zar Jewels
- h. Modern Packaging
- i. Mirchi Binge Festival
- j. Venjara Carpets
- k. Studio Padmini Pandey
- l. LedsConcept