Sangat Shah

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LinkedIn: https://www.linkedin.com/in/sangatshah/ | **Github**: https://github.com/Sangat21 | **Portfolio**: https://sangat21.github.io/
Full Stack Engineer specializing in AWS cloud-native applications, real-time streaming platforms, and interactive web solutions. U.S. Citizen.

> Skills

Core: JavaScript, TypeScript, React, Node.js, PostgreSQL, MongoDB
Cloud & DevOps: Azure (Blob Storage, Functions, App Service), AWS (Lambda, S3, CloudFront, DynamoDB, API Gateway), CI/CD, Pulumi, Docker, Jenkins, CloudWatch
AI & LLM Tools: Retrieval-Augmented Generation (RAG),, Semantic Search, Embeddings
Additional: Python, Angular, Django, Redux, Firebase, Oracle SQL, React Native, PHP, Java

> Freelance / Independent Projects

Legal Document Automation Platform | 2025

- Built and deployed a **Retrieval-Augmented Generation (RAG) application** using **Chainlit** to streamline legal petition drafting, integrating a React frontend with a Node.js backend
- Designed and implemented a **scalable architecture on Azure**, leveraging Blob Storage, Azure Functions, and Azure App Service for high availability and performance
- Enhanced the **Chainlit-based conversational interface** for smooth user interaction, improving usability for non-technical users

Flowmation (Startup Project) | 2024

- Developed a **full-stack web application** for automating business workflows, improving operational efficiency for small teams.
- Built with **React (Vite) frontend** and a **Node.js/Express backend** connected to a **PostgreSQL database**

> Experience

Full Stack Engineer II @ Screen Engine/ASI

Jun. 2023 to Current

Media and entertainment market research firm delivering real-time audience insights through advanced data collection and live screenings

- **Designed and deployed AWS serverless architecture** (Lambda, API Gateway, DynamoDB) powering 3 React frontends and 1 Node.js backend, ensuring scalability, reliability, and high availability
- **Automated CI/CD pipelines with Pulumi and AWS CloudFront**, accelerating deployments and reducing downtime across four applications
- **Delivered a 0-vulnerability production build** (npm audit verified) by leading framework migrations (MUI v5, AWS SDK v3) and strengthening security practices
- **Built a real-time streaming and chat platform** with Amazon IVS, WebSocket APIs, and Amazon Chime, enabling thousands of viewers to participate in interactive screenings
- **Developed advanced data visualization dashboards** with Recharts, giving clients actionable insights via demographic and sentiment-based filters
- **Redesigned email templates** for Mandrill integration, improving responsiveness, brand consistency, and client communication

Co-founder / Lead Software Engineer @ Gibber Chat

Jan. 2023 to Sep. 2024

Web and mobile chat app with real-time translation, enabling users to communicate seamlessly across languages

- Deployed a static web app on **AWS S3** and optimized delivery via **CloudFront**, significantly improving page load times
- Managed multiple **S3 buckets**, writing access policies to control permissions for users and environments
- Deployed public-facing **API infrastructure** using **Elastic Beanstalk**, configuring security groups, VPCs, and load balancers
- Built automated **CI/CD pipelines**, streamlining deployments and reducing manual errors
- Led a **4-person Agile team**, mentoring junior developers and improving delivery velocity by 30%
- Used **Trello** to manage sprint workflows and maintain clear communication across the team
- Reviewed and approved code via **Git workflow**, ensuring adherence to engineering best practices
- Optimized **MongoDB schema**, reducing API request load by 50% and improving backend efficiency by 25%
- Developed a cross-platform **React Native** mobile app for iOS and Android (in progress at the time of departure)

Mid Software Engineer @ Mosaic Learning Inc.

Mar. 2022 to Nov. 2022

Built and enhanced a customizable Learning Management System (LMS) supporting event management, communications, and eLearning (www.combobulate.com)

- **Designed and implemented a survey & quiz builder** using React, Node.js APIs, and AWS S3, enabling clients to create formal training modules with ease
- **Reduced AWS usage by 20%** by consolidating external codebases into the LMS, improving platform efficiency and lowering operational costs
- **Developed a data visualization dashboard** with React, REST, and MUI, enhancing instructor experience with real-time metrics and improved UI/UX
- **Introduced Vitest testing framework**, strengthening backend unit and integration coverage and increasing overall system reliability

Software Engineer @ Fiat Chrysler Automobiles (via Tata Consultancy Services)

Oct. 2020 to Nov. 2021

- **Developed frontend UI components** for an internal inventory management system (PFEP) using Angular, HTML, CSS, and jQuery
- **Built analytics dashboards** and integrated third-party marketing APIs, improving client visibility into key performance metrics

> Education

California State University of Northridge (CSUN)

↳ B.S. Computer Science *2020*