

AKSHAR GOTHİ

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PROFESSIONAL SUMMARY

Fullstack Software Engineer with entry-level experience delivering scalable web applications using React, Node.js, and cloud platforms. Led development of HealthShare Insights, a full-stack React/Node platform with interactive analytics dashboards and a RAG chatbot, improving user engagement and data insight capabilities. Specializes in building real-time, performance-optimized front-end experiences and robust backend services for production environments. Aiming to leverage full-stack expertise to drive high-impact features and elevate user experiences for a forward-thinking technology team.

TECHNICAL SKILLS

- **Programming:** Python, JavaScript, TypeScript, Java
- **Frontend:** React, Next.js (SSR/CSR), Tailwind CSS, State Management (Redux/Zustand), Performance Optimization (lazy loading, code splitting)
- **Backend:** Node.js, Express, Django, REST APIs, GraphQL, WebSockets, API Design, Data Modeling, Request Validation
- **Fullstack & Architecture:** End-to-End Development, API Integration, System Design
- **Cloud & DevOps:** AWS (Lambda, EC2, S3), Docker, CI/CD, GCP
- **Databases & Testing:** PostgreSQL, MySQL, MongoDB, Jest, Unit Testing, Integration Testing

PROFESSIONAL EXPERIENCE

SFSU | Graduate Research Assistant

Aug 2024 - Dec 2025

- Built HealthShare Insights, a full-stack React and Node.js platform using TypeScript, Redux, and WebSockets, delivering six interactive analytics dashboards and a RAG chatbot that enabled faculty to explore health data in real time
- Developed reusable React chart components (pie, radar, timeline, word cloud) with TypeScript and Chart.js, leveraging Redux state management to visualize emotion and sentiment data, which reduced chart development time by streamlining reuse
- Collaborated with faculty to design and deploy features from data ingestion through frontend visualization, employing lazy loading, code splitting, and Jest testing, which shortened deployment cycles by two weeks

Tatvasoft | Software Engineer

Jul 2021 - Aug 2023

- Improved user activation and product discovery by **25%** by optimizing frontend UX and backend search logic.
- Enhanced onboarding experience by reducing API latency by 35% and improving UI responsiveness, increasing user retention by 18%.
- Designed and implemented scalable REST APIs with Node.js, Express, and MySQL on AWS EC2, applying schema design, validation, and versioning, which reduced integration errors and accelerated frontend development
- Developed secure payment workflows with Stripe and PayPal on AWS, adding tokenization and server-side validation, which increased successful checkout rates and lowered payment-related support tickets

Reviewdale | Backend Engineer Intern

Jul 2020 - Aug 2021

- Developed full-stack features with React and Node.js for analytics dashboards, improving data visibility for internal teams
- Built secure REST APIs with Express and integrated third-party payment and advertising services, enabling safe transactions and reliable ad delivery
- Deployed full-stack applications on AWS using CI/CD pipelines, ensuring reliable and scalable production releases.

PROJECTS

Shipify – Crowdsourced Package Delivery Platform | <https://shipfy.com/>

Jan 2025 - Jul 2025

- Designed and built a full-stack package delivery platform using React, Node.js, Express, and PostgreSQL, supporting 500+ concurrent users and scalable real-time.
- Developed real-time messaging system using WebSockets, enabling low-latency communication (<100ms) for concurrent users.
- Built backend REST APIs for user verification, shipment posting, traveler matching, messaging, and delivery status tracking with structured PostgreSQL data models.
- Designed matching logic and responsive React workflows to connect package senders with travelers based on route, location, and delivery availability.
- Owned end-to-end development across frontend, backend, database design, and AWS deployment.

HealthShare Insights | <http://18.218.238.186/>

Aug 2024 - Dec 2025

- Built a full-stack health analytics platform using React, Node.js, Express, PostgreSQL, and Qdrant to analyze 10K+ COVID-era social media posts.
- Developed interactive React dashboards including emotion pie charts, word clouds, radar charts, and timeline visualizations for data exploration.
- Built a RAG chatbot interface with real-time question answering by integrating React frontend flows with Node.js/Express APIs and Qdrant vector search.
- Designed REST APIs connecting PostgreSQL, vector search, and frontend dashboards, improving data retrieval and chatbot response performance.
- Deployed the application on AWS EC2 with CI/CD workflows for reliable releases and production accessibility.

YoudescribeX | <https://ydx.youdescribe.org/home>

Jul 2024 - Dec 2025

- Built a full-stack AI-powered video accessibility platform using React, FastAPI, PostgreSQL, and AI model integrations for automated video caption generation.
- Developed accessible React interfaces with keyboard-friendly navigation, lazy loading, and code splitting, improving Lighthouse performance by 25%.
- Integrated YOLOv8 computer vision models and LLM APIs into backend workflows with retry logic, error handling, and async processing for reliable caption generation.
- Optimized backend processing pipelines and API workflows, reducing caption generation latency by 50%.
- Improved frontend and backend reliability for AI-generated caption review, editing, and user-facing accessibility workflows.

EDUCATION

San Francisco State University | *Master of Science, Computer Science* (GPA: 3.63/4) San Francisco, California, USA Aug 2023 - Dec 2025

Chandubhai S Patel Institute of Technology | *Bachelor of Technology, Information Technology* (GPA: 3.5/4) Gujarat, India Jul 2017 - May 2021