

HARDI TRIVEDI

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EDUCATION

Master of Science, Artificial Intelligence

San Jose State University

Aug 2022 - Aug 2024 | San Jose, CA

Bachelor of Technology, Computer Science

Ahmedabad University (AU)

Aug 2017 - May 2021 | Ahmedabad, India

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Golang, Python, Java, C++.

Frontend Development: React, Next.js, HTML5, CSS3, Tailwind CSS, Redux.

SWE Frameworks & Databases: REST API, FastAPI, Flask, Node.js, Spring Boot, SQL (MySQL, PostgreSQL), MongoDB.

Cloud & DevOps: AWS, Azure, GCP, CI/CD Pipelines, Docker.

Machine Learning & Data Analysis: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy.

WORK EXPERIENCE

Software Engineer at Learn2AI

Jan 2025 - Current | Remote

- Developed a responsive ed-tech web application with **React** and **Tailwind**, enabling seamless access to multimedia course content and interactive learning modules.
- Integrated **REST APIs** with frontend components and architected modular **backend services in C++ and Python** on **GCP** with **CI/CD pipelines**, supporting **~50 queries per minute**.
- Implemented semantic search and summarisation features using **Spark** and **GPT-4**, improving content discovery and learner engagement.
- Authored documentation while **mentoring 10 interns** on frontend integration, API usage, and **SWE best practices**.

Applied Researcher at SJSU AI Labs

Aug 2023 - May 2025 | San Jose, CA

TempRALM - Time Sensitive Retrieval ([Research Paper presented at CAI 2025](#) – ‘**Best Paper**’ Award Winner)

- Invented a novel retrieval algorithm for time-sensitive information and an automated dataset curation technique.
- Improved retrieval accuracy by **74% over baseline** and **32% over a commercial RAG system**.

LLM-based Localisation of Low-Resource Languages ([Research Paper presented at AlxSET 2024](#) | [Demo](#))

- Built a **GenAI agent** for Gujarati and Hindi, enhancing translation quality by **5–6% (BLEU)**.
- Achieved **93% response accuracy** in HR domain case-study trials using a **React + REST API** integration with the agent.

Frontend Engineer at Lotus Infosystems

May 2021 - August 2022 | India

- Built an interactive data visualisation dashboard in **React and JavaScript**, with **CSS3**, for real-time portfolio tracking and predictive insights.
- Designed intuitive and interactive UI components such as **chart visualisations, filter panels, and accessibility features**, significantly improving usability and engagement for **300+ active users**.
- Connected the React frontend with a backend built in **Java Lambdas** and **PostgreSQL** through **REST APIs**, implementing **state management (Redux)** and **lazy loading** for dynamic and responsive data updates.
- Deployed services via **CI/CD pipelines**, maintaining **99% uptime** and reducing dashboard data load latency by **~250ms**, ensuring smooth and reliable user interactions.

Software Engineer at Sahyog, Centre for Promoting Health

Nov 2020 - May 2021 | India

- Developed a **React-based frontend** for a COVID-19 prediction system, enabling intuitive interaction with patient data and predictions.
- Connected the frontend with a **Flask backend** consisting of a fine-tuned VGG16 model, providing the beta system to 10 clinics and improving patient consultation efficiency by **~30%**.

PROJECTS

Educational Gen AI Agent ([GitHub](#))

Feb 2025

- Designed an end-to-end ML system as a **GenAI agent chatbot** for educational content, with a **JavaScript-based frontend** featuring interactive UI components and responsive design, and **MCP** and **LangGraph** for agentic workflow.
- Deployed via **GitHub Actions** to a local host, enabling context-aware responses with **Gemini integration** for interactive problem-solving.

Portfolio Maker AI ([GitHub](#))

Aug 2024

- Developed a **React and Node.js** web application with interactive UI components for creating customised portfolios in **under 10 minutes**.
- Engineered an **AI-driven system** that parses resumes and automatically generates and deploys live portfolios.
- Launched as a personal summer project, the platform has already attracted **200+ active users**.

Image Generator Web Application ([GitHub](#))

Jan 2024

- Constructed a **React & Node app** for rendering AI-generated images from prompts.
- Used OpenAI's DALLE API for real-time image generation and **S3** to store and manage 1,000+ images from various prompts.

Twitter Clone

Aug 2023

- Created a scalable social networking web application using the **MERN stack**, simulating Twitter.
- Deployed over **multiple EC2 instances**, implemented AWS Auto Scaling with a Load Balancer.

LEADERSHIP, ACHIEVEMENTS AND HOBBIES

- Head of the Programming Club** at Ahmedabad University. Led the club of **30+ students** for **1.5 years**.
- Recipient of the INSPIRE **scholarship (INR 80,000/- per year)** by the **Government of India** for excellence in senior high school.
- Became a professional Bharatanatyam dancer at **age 14**, performing Arangetram before **1,000+ audience** after **8 years of training**.