

SKILLS

- **Languages** : C++, JavaScript
- **Automation and Testing** : Postman(API Testing), JUnit, React Testing Library(RTL)
- **DevOps and CI/CD** : Git, Docker, AWS
- **Technologies/ Library** : SQL, React, Next.js, Redux-Toolkit, Redis, Tailwind CSS, Node.js, Express.js, MongoDB
- **Additional Skills** : DSA, OOP, Project Management, REST APIs, Microservices Architecture, MVC Design Pattern

EXPERIENCE

Outlier (AI & DATA SOLUTIONS COMPANY) | AI Trainer

Nov 2024 - Jan 2025

- Trained AI models by generating **100+ high-quality prompts** and providing accurate responses for mathematical problems
- Developed and refined AI-generated content to improve clarity, correctness, and relevance, enhancing **AI accuracy by 20%**
- Collaborated with AI researchers to enhance prompt engineering techniques, leading to a **15% up in response efficiency**
- Ensured consistency in AI-generated mathematical solutions by applying domain expertise, **validating 95%+ responses**

PROJECTS

Sentinel - Uptime & SSL Monitoring SaaS| Next.js, AWS Lambda, SQS, Redis, PostgreSQL| [Live](#)

Jan 2026 - Feb 2026

- Architected a **serverless**, event-driven monitoring engine using **AWS Lambda, SQS, and EventBridge**, decoupling scheduling from execution to scale concurrent uptime checks with **99.9%** reliability.
- Engineered a high-performance caching layer via **Upstash Redis**, reducing **PostgreSQL** read load by **95%** and achieving sub-50ms load times for high-traffic public status pages.
- Implemented secure **OAuth authentication** strategies with decoupled session management, optimizing token payloads to eliminate storage overhead and enhance security posture.
- Developed **real-time analytics dashboards** visualizing latency trends using **Recharts**, backed by optimized **Prisma ORM** queries to handle scalable historical time-series data.
- Automated **intelligent notification pipelines** using **Resend**, triggering instant alerts for critical downtime incidents and SSL expiries based on real-time worker feedback.
- Integrated **Stripe** subscriptions with secure **webhook** verification to automate recurring billing cycles and enforce tiered resource limits for **premium users**.
- **GitHub Repository** : <https://github.com/hardiksharmaa/sentinel>

CodeX - Gamified Coding Platform | PostgreSQL, Next.js, CodeSandbox | [Live](#)

Nov 2025 - Dec 2025

- Built a full-stack gamified **SaaS** platform using **Next.js**, Tailwind CSS, Neon PostgreSQL, and **Drizzle ORM** with progress tracking.
- Implemented **authentication** and **subscription-based access control** using Clerk OAuth, enabling premium content locking.
- Optimized dashboard performance by consolidating **multi-table queries**, **minimizing API calls**, and rendering personalized data.
- Developed an in-browser coding playground using **CodeSandbox** with live preview, resizable panels, and executable code editor.
- Engineered intelligent **progression logic** to unlock exercises sequentially and redirect users to the latest unlocked learning state.
- **GitHub Repository** : <https://github.com/hardiksharmaa/codex>

Quick.ai - AI Content Generation SaaS | PostgreSQL, React, Express, Clerk | [Live](#)

Aug 2025 - Sep 2025

- Built a full-stack **PERN** app, delivering a complete **SaaS** platform for AI-driven, **automated** content creation and management
- Integrated **Google's Gemini** and **Clipdrop APIs** to enable features like **article writing** and **image Generation** and many more
- Implemented secure user **authentication and profile management** using Clerk to support free and premium user tiers
- Designed a responsive **React + Tailwind** dashboard to help users monitor, edit, and manage their AI-generated content
- Utilized **Neon serverless Postgres** and **Cloudinary** for scalable, reliable data storage and efficient **cloud-based image handling**
- **GitHub Repository** : <https://github.com/hardiksharmaa/QuickAI>

CERTIFICATES

Successfully completed the Cloud Computing Program offered by IIT Kharagpur | [Link](#)

Feb 2025

Generative AI for Everyone - Coursera | [Link](#)

Dec 2024

Project Management - Coursera | [Link](#)

Sep 2024

ACHIEVEMENTS

Solved **600+** DSA questions on [LeetCode](#) with contest rating **1700 (top 8%)** | [Link](#)

Present

Secured **2nd position** out of **300+** teams in **GeeksforGeeks** hackathon | [Link](#)

Dec 2024

Among Dean's top **10%** students at university

Present

EDUCATION

Lovely Professional University

B. Tech in Computer Science & Engineering

Phagwara, Punjab

Aug 2022 - Present

Army Public School Kaluchak

Intermediate (Non-Medical) | CBSE

Grade - 83%

Jammu, J&K

March 2020 - Apr 2021

Army Public School Kaluchak

Matriculation (Science) | CBSE

Grade - 87%

Jammu, J&K

Feb 2018 - Apr 2019