

# HARSHRAJSINH ZALA

📞 +91-7575838183 📩 harshrajsinhz1684@gmail.com 💬 linkedin.com/in/harshrajsinhzala

Github: [github.com/harshrajsinh-08](https://github.com/harshrajsinh-08) Vercel: [harshrajsinh.vercel.app](https://harshrajsinh.vercel.app)

## Education

### VIT University

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.24/10

Sep 2022 – May 2026

Vellore, Tamil Nadu

### Puna International School

Class XII (State Board); Scored: 86%

Mar 2022

Gandhinagar, Gujarat

### Vatsalya International School

Class X (CBSE); Scored: 94%

Mar 2020

Borsad, Anand, Gujarat

## Certifications

- AWS Certified Cloud Practitioner (2025)
- Modern Web Dev Bootcamp, Udemy (2024)
- Machine Learning MasterClass, Udemy (2024)
- React – The Complete Guide, Udemy (2024)
- Java Programming Masterclass, Udemy (2023)

## Experience

### Frontend Developer Intern

24x7developers

May 2025 – July 2025

Ahmedabad, India

- Developed scalable and responsive user interfaces using **React.js**, **HTML5**, and **CSS3**.
- Built modular and reusable components using **Tailwind CSS** to maintain design consistency.
- Worked on a live business dashboard application: [marshpos.com](http://marshpos.com), contributing to login flow, dashboard UI, and error handling.
- Integrated REST APIs to fetch and render dynamic data in real time.
- Collaborated with the team using Git/GitHub, participated in code reviews, and followed Agile sprint workflows.

### Core Committee Member – The Matrix Club

VIT University

Feb 2024 – Present

Vellore, India

- Handled photography and video editing responsibilities during campus fests such as **Gravitas** and **Riviera**.
- Contributed to planning and execution of technical events and workshops.
- Managed logistics, promotions, and coordination for hackathons and coding events.
- Worked closely with multiple teams to ensure smooth execution of events.

## Projects

### Travel Tales – [traveltalesvit.vercel.app](https://traveltalesvit.vercel.app)

Feb 2025

Built a full-stack travel planning web app using **Next.js**, **Node.js**, and **MongoDB**.

- Integrated external APIs with fallback handling to keep the app stable.
- Implemented backend logic for trip budgets, search, and filtering.
- Designed secure authentication with password hashing and Google login.

### CSS Generate – [cssgenerate.vercel.app](https://cssgenerate.vercel.app)

Nov 2024

Built a web-based CSS utility generator using **JavaScript**, **Tailwind CSS**, and **HTML/CSS**. Added real-time preview and copy-to-clipboard features. Focused on usability, responsiveness, and clean UI design.

### Feedback Alignment vs Backpropagation (DFA vs BP)

Ongoing

Conducting a research-based study comparing **Direct Feedback Alignment (DFA)** with traditional **Backpropagation (BP)** in neural networks. Implemented and trained models on classification datasets to analyze learning dynamics, convergence behavior, and accuracy differences. Exploring the feasibility of DFA as a biologically plausible alternative to backpropagation for real-world datasets.

## Technical Skills

- **Languages:** Python, Java, C, C++, JavaScript, SQL, HTML, CSS
- **Frameworks/Technologies:** React.js, Node.js, Express.js, Firebase, Tailwind CSS
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn
- **Tools:** Git, GitHub, VS Code, Jupyter Notebook

## **Co-curricular**

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### **Escape the Matrix 2.0 – Tech Event**

**Feb 2024**

- Oversaw end-to-end execution of a university-wide tech event with 200+ participants.
- Coordinated with design, logistics, and tech teams to ensure smooth operations and stakeholder alignment.

### **Adathon – Advertising Hackathon**

**Sept 2024**

- Served as event judge and evaluator; assessed participant performance and creativity under time constraints.
- Managed logistics, scheduling, and team coordination to deliver a seamless event experience.