

# KAPIL YADAV

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[LinkedIn](#) | [GitHub](#) | [Portfolio Website](#) | [Project Videos](#)

## ACHIEVEMENTS

**American Express India Discovery Program'24 Mentee:** Selected as the only student from the entire 2nd year for this cohort. Among 150 students chosen from across India.

**Pitched NOKAP at India Blockchain Week (among top 20 teams):** Presented the NOKAP project in Bangalore at IBW, earning industry recognition and appreciation from venture capitalists.

**ICP BlockBash Hackathon Winner:** Secured 1st prize and \$250 in the ICP BlockBash Hackathon.

## EXPERIENCE

**FullStack Developer Intern**, Sep 2024 – March 2025

*The Swago (Web3 Startup)*

- Developed a decentralized betting platform on Internet Computer Protocol (ICP) using Motoko and React.js, implementing **real-time market cap tracking** and **automated betting resolution**
- Engineered full-stack features including **real-time countdown systems**, **secure file handling** for profile images, and automated **token distribution** mechanisms using blockchain technology.
- Created a robust form system with image handling, dynamic question generation, and real-time data validation, supporting multiple betting parameters and **Web3 wallet integration**.

**Web Development Intern**, Jun 2024 – July 2024

*Design Innovation Centre (DIC) Lab*

- Developed a website for TechViz, a tool enhancing spatial awareness for the visually impaired.
- Customized Google Forms with CSS to tailor user interaction while retaining native features .

## POSITION OF RESPONSIBILITY

**Team Leader of HG Kelly**, Oct 2023 – Nov 2023

*BlockBash Hackathon by Internet Computer Protocol (ICP)*

- As team leader of HG Kelly, I oversaw our core strategies, product roadmap, and execution plans. **Created 3 MVPs with 3 different unique ideas.**
- Developed a user-friendly interface with **React.js**, **writing reusable, scalable code**. Led successful deployment on the main-net ICP Blockchain.
- Solved complex technical issues independently, with minimal help from AI and stack overflow due to the nascence of the technology.

## PROJECTS

**Arkham Labs** ↗ *(AI Powered Full-Stack DSA Platform):*

- Built a full-stack LeetCode-style platform with real-time **collaborative editing** using **Liveblocks** and self-hosted **Judge0** for code execution on **Azure VM**.
- Integrated an **AI assistant (Alfred)** using **Groq API**, providing contextual problem-solving guidance.
- Enhanced UX with **dark/light mode**, contribution tracking, and social features like Like/Save. Engineered scalable backend with Express.js, PostgreSQL, and Prisma; developed a clean, responsive frontend using React, Tailwind, Zustand, and Zod.

**Technologies:** React, Node.js, Prisma, PostgreSQL, Docker, Liveblocks, Groq AI, Zustand, Zod

**Kwizzy** ↗:

- Built a full-stack quiz platform with **JWT-based RBAC** (Admin/Student), **25+ RESTful Flask-RESTful APIs**, and a **mobile-responsive Vue.js + Tailwind CSS frontend**.
- Integrated **Redis + Celery** for **async background jobs** like CSV exports, **email reminders**, and **monthly reports**, optimizing **server load and scalability**.
- Implemented **real-time analytics with Chart.js**, **premium quiz payments** with transaction tracking, and **secure deadline-based** quiz access control.

**Technologies:** Flask, Vue.js, SQLite, Tailwind CSS, Celery, Redis, Chart.js, Brevo

## EDUCATION

BS in Data Science and applications  
IIT Madras

2023-2027  
CGPA 8.77

BE in Electronics and Communication Engineering  
UIET, Panjab University

2022-2026  
CGPA 7.05

## SKILLS

**Languages:** JavaScript, TypeScript, Python, SQL, Motoko, Java.

**Frameworks:** Flask, ExpressJS, ReactJS, NextJS, VueJS, NodeJS, Tailwind CSS.

**Tools:** Jinja2, Prisma, PostgreSQL, Zustand, Zod, MongoDB, Redis, Figma, Git, ChartJS, Celery, Microsoft Azure.