

Akash Singh

Portfolio

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EDUCATION

- **Dayananda Sagar College Of Engineering** Bengaluru, India
Bachelor of Engineering-Computer Science And Engineering; 2022 - 2026
- **Delhi Public School** Siliguri, India
12th Standard; CGPA: 9.6 2020-2022

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript

Frameworks And Libraries: Flask,NodeJS,ExpressJS,React,Redux-Toolkit,NextJs,TailWind

Databases And Tools: MongoDB,MySQL,SQLite,Git,Github,Firebase

EXPERIENCE

- **Intern @Bolesale** January 2024 - Present
Full Stack Developer
 - Contributed to building robust applications using React, Firebase, and Redux, emphasizing **RESTful** architecture and efficient **CRUD** operations for seamless user experiences.
 - Collaborated within a multidisciplinary team to ensure adherence to **ACID** principles, ensuring data integrity and scalability while implementing **Version Control** with Git for effective collaboration.
- **Intern @CodingZen** December 2023 - Present
Online Teaching (Full Stack)
 - Spearheaded comprehensive virtual instruction in Full Stack Development at CodingZen, providing insightful guidance on front-end and back-end technologies to a diverse cohort of students.
 - Developed and delivered a dynamic curriculum, integrating real-world projects and interactive sessions to facilitate hands-on learning experiences, enabling students to grasp complex concepts effectively.

PROJECTS

- **EduSync**|*NextJs,Typescript,Firebase, EdgeStore ,Flask* | [GitHub](#) | [Deployment](#) :
 - Orchestrated the fusion of **Next.js**, **Firebase**, and **TypeScript** to develop an innovative tutoring platform. Delivered a dynamic user experience while ensuring code integrity and scalability and deployed on **Vercel**.
 - Leveraged Falcon 7B's advanced AI capabilities to enhance the platform with state-of-the-art **natural language processing** and integrated it into an **NLP Chatbot**.
 - Engineered a robust backend utilizing Flask, EdgeStore, and Firebase. Orchestrated **RESTful APIs**, proficient **CRUD operations**, and optimized data storage with **User Authentication And User Roles**.
- **Quiz Quest**|*NextJs,Typescript,Firebase* | [GitHub](#) | [Deployment](#) :
 - The project facilitates administrators in attempting quizzes and managing quiz data, including scores, completion times, and specific quiz details along with allowing users to **create quizzes from Excel Sheets**.
 - Developed with **Next.js** and **TypeScript**, the project incorporates server-side rendering, seamless routing, strong typing, and improved code maintainability for an enhanced user experience and deployed on **Vercel**.
 - Integrated **Firebase** for **real-time database management** and **user authentication**, leveraging **Firestore** for data storage, **Firebase Authentication** for secure access,and implementing **Admin Dashboard**.
- **Motion Amplification Video (MAV)** |*MERN,Tailwind,AWS* | [GitHub](#) | [Demo Video](#) :
 - Developed a pioneering **cloud-based solution** for Motion Amplification Video (MAV) (**SIH'23 PS:1415**), revolutionizing vibration analysis by enabling accessibility from anywhere via processing video clips and extracting motion features frame by frame, it amplifies and replays these motions, unveiling micro-scale defects.
 - Implemented a cloud-based **dashboard** using **AWS S3 Bucket** and **AWS Cloudfront** for users to upload video clips and view processed results, enhancing accessibility from any location.
 - Contributed to the development of the **user interface (UI)** to provide essential data outputs such as **time waveforms** and **FFT spectra** for in-depth vibration analysis.

ACHIEVEMENTS

- Placed 2nd Place Among 83 other teams in Engigma 2023 Hackathon -December 2023
- Placed Top 10 Among 48 other teams in Hackmanv6 Hackathon -July 2023
- First Place in Web Wizards Web Development Contest - February, 2023