

# 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, Golang

**Frameworks And Libraries:** NodeJS, ExpressJS, React, Redux, NextJs, TailWind

**Databases And Tools:** MongoDB, PostgreSQL, SQLite, Git, Github, Firebase

## OPEN SOURCE CONTRIBUTION

- **Keptio Inc.** Contributions  
*Open Source Contributor: Go, Bash, Tests, Mocks*
  - Enhanced [Keptio CLI](#) via implementing **CLI Commands** with **Cobra** including **Update**, **Normalise**, **Show** commands whilst working alongside an extraordinary community.
  - Integrated CLI Flags such as **-version** flag, and **-enableANSIColor**, to improve user experience, enhanced **Github Actions Workflow** for [TestGPT](#) alongside **Bug Fixes And Documentation**.

## EXPERIENCE

- **Intern @Bolesale** January 2024 - Present  
*Full Stack Developer : React, Firebase, Redux, Zustand*
  - Built robust applications using React, Firebase emphasizing **RESTful** architecture, **Advanced State Management** using Redux and Zustand and efficient **CRUD** operations.
  - 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 - February 2024  
*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

- **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**.
- **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**.
  - 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**.
- **Motion Amplification Video (MAV)** | [MERN](#), [Tailwind](#), [AWS](#) | [GitHub](#) | [Demo Video](#) :
  - Developed a pioneering **cloud-based solution** for revolutionizing vibration analysis via processing, extracting, amplifying and replaying motion features frame by frame, 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.

## 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