Akash Singh

Email: akashsingh2210670@gmail.com
Portfolio
Mobile: +91-938-259-8086
Github: Akash-Singh04

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,NextJs,BootStrap5,TailWind

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

Experience

- **CodingZen** — December 2023 - Present
  Online Teaching (Full Stack) internship
  - 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 | Website :
  - 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.
- **SleepSense** |***Python, Flask, Tensorflow*** | GitHub :
  - Created **SleepSense**, a vigilant guardian against driver fatigue leveraging machine learning combined with image processing techniques to detect driver drowsiness and provide real-time alerts.
  - **B**uild a **User Interface** using Flask for users to access our ML model from anywhere and provide real time protection and monitoring.
  - Lead a team of 4 people and prepared prototype of project during **Hackman V.4** and placed **Top 10** collaborating on Github and improvising upon feedback received from mentors.

Achievements

- Placed Top 10 Among 48 other teams in Hackmanv6 -July 2023
- First Place in Web Wizards Web Development Contest - February, 2023
- First Place in Extempore Competition in InBlooms organized by Christ University - April,2023

Volunteer Experience

- **Point Blank** — Bengaluru, India
  Member of an elite multidisciplinary team of programmers from DSCE. — *Jan 2023-Present*
- **LITSOC, DSCE** — Bengaluru, India
  Member of the Literary Society of Dayananda Sagar College Of Engineering. — *Jan 2023-Present*