

Akash Singh

Portfolio

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EDUCATION

Dayananda Sagar College Of Engineering

CGPA: 9.65

Bachelor of Engineering-Computer Science And Engineering

2022 - 2026

TECHNICAL SKILLS

Languages: TypeScript, Golang, Python, JavaScript

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

Databases And Tools: MongoDB, PostgreSQL, SQLite, GraphQL, Git, Github, CI/CD

OPEN SOURCE CONTRIBUTION

Google Summer Of Code

May 2024 - Present

Keplry : Golang, Typescript, Scala, Lua, Svelte

Part time : Remote

- Developed a **GraphQL** server for Keplry CLI to allow for seamless execution of Recording and Replaying of Generated Tests via API calls using **eBPF**.
- Integrated Keplry to various IDE's such as *VsCode*, *IntelliJ* and *Neovim* via developing **cross-platform extensions** using various platform specific technologies.
- Submitted over 15+ Pull Requests to various projects across Keplry integrating *CLI commands and flags* using **Cobra**, *Github Actions Workflow* for **TestGPT** and various Bug Fixes.

EXPERIENCE

Swipegen

February 2024 - May 2024

Technical Trainer

Part time : Bangalore, India

- Spearheaded, developed, and delivered engaging training sessions on *HackerRank* and *LeetCode* platforms across various colleges in Bangalore, India.
- Equipped learners with strategies and techniques to efficiently solve data structures and algorithmic challenges using **Python** and **Java**.

Bolesale

December 2023 - February 2024

Full Stack Developer : React, Firebase, Redux, Zustand

Internship : Remote

- 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.

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 *React*, *AWS S3 Bucket* and *AWS Cloudfront* for users to upload video clips and view processed results, enhancing accessibility from any location.

ACHIEVEMENTS

- Placed 1st Place Among 35 other teams in Hack-o-Rama 2024 Hackathon - January 2024
- 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