PRANJAL

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EDUCATION

Indian Institute of Technology Gandhinagar (IITGN)   **Nov 2021 – June 2025**
Bachelor of Technology in Electrical Engineering, Minors in Computer Science   *CGPA : 8.59/10*

Disha Delphi Public School   **April 2020 – May 2021**
Intermediate(XII) in Science (Maths)   *Grade: 91.2/100*

PROJECTS

On-Campus Employment Management Portal | Project Link | *Tech Stack: Flask, SQL*   Jan 2024 – April 2024
- Led backend development for a fully customized on-campus employment portal using Flask, tailored to institute specific requirements with secure routing and authentication systems for different user types.
- Addressed complex access control by designing a secure authentication system for multiple user types (students, professors, etc.), ensuring role-based access while maintaining flexibility for future expansions.
- Gained expertise in modular backend architecture using Flask, secure routing and user authentication, and optimized database design and integration through collaboration and problem-solving within an 8-member team.
- Deployed the portal for seamless job postings, application tracking, and efficient management of the program.

Youtube Feed Detoxifier- Browser Extension | *Tech Stack: Node.js*   Sept 2024 – Dec 2024
- Developed a Chrome extension to filter YouTube videos based on user-defined keywords for a personalized feed.
- Integrated NLP-based APIs for real-time content filtering, tackling API rate limits for high-load performance.
- Gained expertise in extension development, API integration, caching strategies, and optimizing user experience.
- Delivered a user-friendly tool improving content relevance while scaling for high traffic and seamless performance.

Secure Logging Command Line Application | *Tech Stack: C++*   Sept 2024 – Oct 2024
- Implemented an encryption module to safeguard sensitive log data with latest cryptographic algorithms.
- Designed a secure log append module with authentication and encryption, ensuring logs follow a specified format.
- Innovated a token-based security model that effectively blocks unauthorized access and modifications.
- Participated in a month-long contest phase to identify and resolve security and functionality bugs in team code, fixing reported issues within 48 hours to secure points and strengthen system security.

TECHNICAL SKILLS

Languages: C++, SQL, Python, JavaScript, HTML/CSS
Frameworks: Flask, Node.js, Express.js
Developer Tools: Git, Postman, Google Cloud Platform, VS Code, npm, MySQL
Libraries: pandas, NumPy, Matplotlib, Libsodium (cryptography)

RELEVANT COURSEWORKS

Data Structures and Algorithms, Databases, Operating Systems, Machine Learning, Computer and Network Security

ACHIEVEMENTS

- Felicitated with Dean's List Award in III Semester by Academic Office for excellent academic performance.
- Secured 99.37 percentile in Joint Entrance Examination (JEE) Mains 2021 among around 1.1 million candidates.
- Solved 300+ coding problems on LeetCode with consistent practice, enhancing problem-solving skills.

POSITION OF RESPONSIBILITY

- **Event Management Executive, TEDxIITGandhinagar'23**: Negotiated with vendors and managed crowd control, ensuring seamless event execution and a memorable experience for attendees.
- **Academic Discussion Hours (ADH) Mentor, IIT Gandhinagar**: Mentored 300 students in Ordinary Differential Equations, enhancing understanding and academic performance while developing strong teaching and communication skills.