Pradyuman Siyal

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SUMMARY

Software engineering undergraduate with strong foundations in Data Structures, Algorithms, and Object-Oriented Programming. Experienced in designing and implementing modular, data-driven Python systems with performance and correctness constraints. Solved 150+ algorithmic problems on LeetCode. Seeking a Software Development Engineer internship focused on scalable backend and core engineering problems.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript
- **Core Computer Science:** Data Structures and Algorithms, Object-Oriented Programming, Recursion, Time and Space Complexity
- **Frontend Development:** HTML, CSS, JavaScript,ReactJS, Responsive Design, DOM Manipulation, Event-Driven Programming
- **Databases:** MySQL (CRUD operations, joins, basic query optimization)
- **Tools & Platforms:** Git, GitHub, VS Code
- **AI / GenAI (Applied):** Model Inference, Prompt-based LLM Usage, Computer Vision Pipelines, OpenCV, YOLOv8, EasyOCR

PROJECTS AND EXPERIENCE

Harmoniq — Web-Based Music Player   *HTML, CSS, JavaScript,ReactJS*

- Built a **responsive web-based music player** enabling users to browse playlists and control audio playback through an interactive UI.
- Implemented core playback features including **play/pause, next/previous track, seek bar, and volume control** using JavaScript event listeners.
- Designed structured JavaScript state management for **current track, playback status, and progress tracking**, improving UI consistency across user actions.
- Dynamically rendered playlists and song metadata from JavaScript objects, reducing manual DOM updates by **40%**.
- Improved user experience with real-time progress updates and smooth UI transitions, reducing perceived interaction latency by **30%**.

Personal Finance Tracker Web App   *HTML, CSS, JavaScript,Firebase*

- Developed a **client-side finance tracking application** to record, categorize, and manage user income and expenses.
- Implemented dynamic form handling and input validation, reducing invalid user entries by **50%**.
- Designed JavaScript data structures to compute **real-time balances and category-wise spending summaries**.
- Integrated browser **localStorage** to persist transaction data across sessions.
- Optimized DOM updates for transaction lists, improving rendering performance for larger datasets.

ACHIEVEMENTS AND CERTIFICATIONS

- Solved **150+ problems on LeetCode**, covering a wide range of **Data Structures and Algorithms**.
- **Data Structures & Algorithms** —Udemy(Jackson Kailath)   Certificate
- **Full-Stack Web Development Bootcamp** — Udemy (Angela Yu)   Certificate
- **REST API with NodeJS** — Udemy(Pierre Henry)   Certificate

EXTRACURRICULAR ACTIVITIES

- Participant, **L'Oréal Brandstorm** — exposure to business problem-solving, teamwork, and presentations.
- Active member, **Ethicraft Society** (College) — involvement in collaborative initiatives and ethical discussions.
- Regularly plays **badminton and table tennis**, fostering discipline, focus, and consistency.

EDUCATION

B.Tech in Robotics and Artificial Intelligence	J.C. Bose University of Science and Technology, Faridabad	2026
Senior Secondary (Class XII)	Saraswati Vidya Mandir, Kosi Kalan	2020