Nilay Rathod

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in nilayrathod

EDUCATION

- **B-Tech In Computer Engineering** — *CGPA: 8.10*
  Dwarkadas J Sanghvi College Of Engineering — 2022-2026
- **12th** — *Percentage: 86.8*
  M.K.V.V.I.V School — 2020-2022
- **10th** — *Percentage: 96.67*
  R.B.K Kanakia School — 2008-2020

EXPERIENCE

- **DJ-UNICODE**
  Full Stack Node Mentor — July 2024 - present
  – As a mentor, I guide and help my mentees develop the skills needed to build high-quality websites from scratch, troubleshoot errors, and enhance their coding abilities, providing them with the right direction to create successful projects.

PROJECTS

- **Goco Programming Language**

  Independently designed and implemented a beginner-friendly programming language for kids, as part of a group project.

  – **Tools & Technologies Used:** JavaCC, Java, ElectronJS, Custom AST, Tokenizer, Parser, Syntax Tree Evaluation.
  – **Language Pipeline:** Designed and implemented complete interpreter flow including lexical analysis, parsing, AST generation, and execution engine.
  – **Feature-Rich Syntax:** Developed support for data types like NUMBER, SENTENCE, LETTER, LOGIC. Added loops, conditional logic and arrays with functions like get, set, push, pop, length tailored for ages 10–14.
  – **Custom Functions:** Created DISPLAY() and DISPLAYNL() to print and INPUT() for taking user inputs and keeping everything case insensitive.
  – **Team Collaboration:** Collaborated with teammate on the Electron-based IDE while solely handling the language design and implementation.

- **Odyssey AI – AI-Powered Learning Manage System** *Link*

  Collaborated in a team to develop an AI-driven LMS aimed at transforming education through automation and intelligence.

  – Led the development of the Video Conferencing Module, integrating Zego Server for seamless live classes, session recordings, and automated attendance tracking.
  – Designed and implemented the frontend and backend architecture, ensuring a scalable and intuitive user experience.
  – Contributed to key AI-driven features such as AI-powered assessments, chatbots, and internship recommendations, enhancing engagement and learning personalization.

- **AI Powered Automation System** *Link*

  Designed an AI-powered drag-and-drop workflow interface to streamline user interaction and automate complex tasks.

  – Implemented AI-driven email using the Gemini API, leveraging NLP to generate contextual email content and saving structured drafts in Google Docs.
  – Developed an NLP-based email summarization system extracting key insights from emails and storing structured data in Google Sheets for efficient tracking.
  – Integrated predictive scheduling with Google Calendar and Meet APIs, using AI to recommend optimal meeting times and auto-generate meeting links.

- **Kura Fashion** *Link*

  Independently developed a fully functional E-Commerce Website with real-time payment integration.

  – Tools & technologies used: ReactJS, ExpressJS, MongoDB, RazorPay, Redux, Cloudinary.
  – This e-commerce platform offers a variety of clothing options where users can select products based on their preferences, including size, color, and add them to the cart, and securely complete payments.
  – Designed an admin dashboard allowing the management of products, tracking and updating orders, and efficiently handling user orders .

TECHNICAL SKILLS

Languages: C, Java, Python, JavaScript
Frontend: HTML, CSS, ReactJS, Bootstrap , Tailwind , Redux
Backend: NodeJS, ExpressJS
Database: MongoDB, MySQL ,PostgreSQL