

Piyush Satiya

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EDUCATION

Indian Institute of Information Technology, Vadodara

B.Tech in Computer Science and Engineering

Aug 2024 – May 2028

Current CGPA: 7.68/10.0

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C++, C

Web Technologies: React, Node.js, Express.js, Next.js, WebSockets, REST APIs, FastAPI

Databases: MongoDB, PostgreSQL

Tools: Git, Cloudinary, Multer, JWT, Clerk Auth

EXPERIENCE

Software Development Intern – Enest

Dec 2025 – Apr 2026 — Certificate

Full Stack

- Developed the complete admin panel for the Immersion Program, including management of applications, cohorts, mentors and universities using schema-driven forms and dynamic data tables
- Designed and built the Careers platform end-to-end including database schema, REST APIs, candidate portal with filters, and admin controls
- Built mentor appointment booking system with payment integration, mentor scheduling, booking workflows and admin management
- Implemented server-side pagination across 15+ admin modules, improving scalability and large dataset handling
- Improved authentication features including password recovery, token validation and consistent API response handling

PROJECTS

VideoTube Backend (Video Platform API) | *Node.js, Express, MongoDB*

GitHub

- Architected RESTful backend with modular MVC structure for videos, playlists and user management
- Implemented secure media upload pipeline using Multer and Cloudinary with JWT authentication and cookie-based authorization
- Built aggregation-based pagination and custom middleware for authentication, validation and centralized error handling

CPU Cache Simulator | *C++*

GitHub

- Implemented set-associative CPU cache simulator with write-through caching and address translation
- Developed LRU and Random replacement policies with cache hit/miss handling and memory access simulation
- Measured cache statistics including hit rate, misses and total memory accesses for workload analysis

ChatFlow (Real-time Messaging Platform) | *MERN, WebSockets, Cloudinary*

GitHub | Live

- Built full-stack real-time messaging platform using Socket.io with JWT authentication and MongoDB message persistence
- Implemented media upload pipeline using Cloudinary together with online/offline presence, unread message counters and profile management
- Designed responsive React frontend with secure session handling

ADDITIONAL WORK

Article Management Tool: Built a personal article management backend using FastAPI, SQLAlchemy ORM and PostgreSQL and RESTful CRUD APIs.

CS50P Certification: Completed Harvard's CS50P covering Python fundamentals, OOP, file I/O, unit testing, and regular expressions (Certificate)