

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: 7.94/10.0

TECHNICAL SKILLS

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

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

Tools & Databases: Git, MongoDB, Cloudinary, Multer, JWT, Clerk Auth

Currently Learning: Computer Networks, Machine Learning, Probability and Statistics

PROJECTS

LocalTunnel Clone (Network Tunneling Service) | *Node.js, TCP/IP, WebSockets* GitHub | In Progress

- Building a reverse proxy service that exposes local servers to the internet via secure tunnels, similar to ngrok
- Implementing TCP socket programming for connection handling and HTTP request forwarding between client and server
- Designed subdomain-based routing system with connection multiplexing to handle multiple simultaneous tunnels

ChatFlow (Real-Time Messaging Platform) | *MERN Stack, WebSockets, Cloudinary* GitHub | Live Demo

- Developed full-stack chat application with instant messaging, user authentication, and media sharing capabilities
- Implemented bidirectional real-time communication using Socket.io with message persistence in MongoDB
- Integrated Cloudinary API for image uploads with automatic compression and CDN delivery optimization
- Built responsive React frontend with custom CSS modules and JWT-based authentication for secure sessions

Easynary (AI-Powered Media SaaS) | *Next.js, TypeScript, Cloudinary AI, Clerk* GitHub | Live Demo

- Built SaaS platform for automated media transformation using Cloudinary's AI APIs for intelligent cropping and resizing
- Implemented platform-specific format optimization (Instagram, Twitter, LinkedIn) with automated dimension adjustment
- Designed modular Next.js architecture with server-side rendering for improved SEO and initial load performance
- Added video preview on hover and responsive grid layouts for optimal mobile and desktop user experience

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

- Architected RESTful API backend for video platform with user management, playlists, comments, and engagement features
- Implemented secure file upload pipeline using Multer middleware and Cloudinary for video transcoding and storage
- Designed modular MVC architecture with custom authentication middleware and error handling utilities

ADDITIONAL WORK

Stock Price Predictor: Built time-series forecasting model using fbprophet and yfinance API to analyze historical stock data and generate price predictions with interactive Plotly visualizations

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

RELEVANT COURSEWORK

Data Structures & Algorithms, Object-Oriented Programming, Computer Networks (ongoing)