

KUNAL HEMANT PASAD

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Education

Rutgers, the State University of New Jersey, New Brunswick, United States Expected: May 2027
GPA: 3.83/4.0
Master of Science in Computer Science

Sardar Patel Institute of Technology, Mumbai, India Dec 2021 – May 2025
GPA: 8.62/10
Bachelor of Technology in Computer Engineering

Professional Experience

EternIQ Jan 2025 – May 2025
Mumbai, India
Software Engineer Intern

- Worked on an AI-powered conversational web platform delivering optimized and structured solution explanations
- Developed and enhanced backend services to support AI-driven workflows, request handling, and response orchestration
- Built and refined frontend components to improve usability, interaction flow, and response readability
- Integrated REST APIs to connect frontend interfaces with backend inference and processing layers
- Collaborated closely with designers and engineers to debug issues, improve performance, and ship production-ready features

Mukesoft IT Consultants Jul 2023 – Feb 2024
Mumbai, India
Full Stack Web Developer Intern

- Developed and maintained production-grade web applications using Laravel and CodeIgniter in a multi-client environment
- Implemented RESTful APIs and backend business logic supporting authentication, CRUD operations and role-based access
- Optimized SQL queries and database schemas, improving response times and system reliability
- Built reusable frontend components and improved form validation, error handling and overall user experience
- Collaborated with cross-functional teams to debug, deploy and deliver scalable features to production

Projects

MindSync – AI Mental Wellness Platform | *React, Node.js, REST APIs* Nov 2025

- Built a full-stack web application that analyzes user inputs to generate personalized mental health insights
- Implemented RESTful APIs using Node.js and integrated ML-based reasoning pipelines
- Designed responsive frontend components and optimized backend workflows for low-latency responses

MarketInsight-AI – Financial Analysis System | *Python, Machine Learning, Data Processing* Jul 2025

- Developed a data-driven system to analyze market trends and generate actionable insights
- Implemented data preprocessing, feature engineering, and model evaluation pipelines in Python

Deepfake Guard – Audio Deepfake Detection | *Python, CNNs, REST APIs* Apr 2025

- Engineered an ML pipeline using CNNs and MFCC features to detect synthetic speech
- Built modular training, evaluation, and inference components for reproducibility

DeliciousBytes – Food Delivery Platform | *Flutter, Laravel, MySQL* Dec 2024

- Built a full-stack food delivery application using Flutter, Laravel, and MySQL
- Designed REST APIs supporting authentication, order management, and real-time updates
- Optimized database schema and reduced API response time through caching and indexing

Technical Skills

Languages: Python, C++, JavaScript, SQL

Frameworks: React, Node.js, Flask, Laravel, CodeIgniter

Databases: MySQL, MongoDB, Firebase

Concepts: Data Structures, REST APIs, MVC Architecture, System Design, CI/CD

Courses and Certifications

NPTEL – Natural Language Processing Apr 2024
Indian Institute of Technology Kharagpur

NPTEL – Data Analytics with Python Apr 2024
Indian Institute of Technology Roorkee

Coursera – Deep Learning Specialization Apr 2024
DeepLearning.AI