

PRATEEK HITLI

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Summary

Aspiring AI Engineer with experience in building scalable frontend and backend systems using React.js, FastAPI, and PostgreSQL, along with exposure to AI-powered applications and automation. Skilled in integrating LLM frameworks like LangChain and LangGraph to build intelligent workflows and decision systems. Strong foundation in Data Structures, Algorithms, and system design.

Technical Skills

Programming Languages: JavaScript, TypeScript, Python, C
Frontend Technologies: React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Shadcn UI
Backend & APIs: Python, FastAPI, Node.js, Express.js, RESTful APIs, PostgreSQL, MongoDB, Database Optimization
System Design: Scalable Systems, Distributed Architecture, Caching, HTTP Request Handling, Production Systems
DevOps & Tools: AWS, Docker, Git, CI/CD, Code Review Practices, Large Codebase Management
AI/ML: TensorFlow, LangChain, LangGraph, Agentic AI, OpenCV, Groq, Llama 3.2

Experience

Junior Developer Intern

Sep 2025 – Mar 2026

DigiBull AI

Mysore, Karnataka, India

- Developed production-grade backend APIs using Python and FastAPI for manufacturing applications, implementing RESTful endpoints with proper error handling and request validation
- Designed and optimized PostgreSQL database queries for production tracking system, implementing efficient indexing strategies and query optimization to handle concurrent requests
- Debugged and resolved backend performance bottlenecks in production applications, reducing API response times through database query optimization and code profiling
- Participated in code reviews and testing cycles with development team, contributing to code quality improvements and ensuring adherence to best practices for production deployments

Frontend Web Developer Intern

Sep 2024 – Feb 2025

Unified Mentor

Haryana, India

- Developed full-stack e-commerce platform backend with Next.js API routes, reducing page load by 40% through server-side rendering optimization, code-splitting, and efficient API design patterns
- Designed RESTful API architecture for product catalog, authentication, and order management with PostgreSQL, ensuring data consistency and implementing proper error handling for production readiness
- Collaborated on code reviews focusing on API security, performance optimization, and maintainable code patterns in a shared codebase environment

React.js Web Developer Intern

May 2023 – Jul 2023

Synkerr

Mangaluru, Karnataka, India

- Implemented backend services for real-time social platform using WebSocket connections, optimizing HTTP request handling and API response times by 35% through efficient database queries and caching
- Navigated large multi-module codebase to integrate Redux Toolkit for state management, building reusable patterns and improving code maintainability across 50+ components

Projects

Agentic Flow Architect | *React, Mermaid.js, Claude API, JavaScript, CSS-in-JS*

- Built interactive web tool that converts Product Requirement Documents (PRDs) into structured Claude CLI project architectures with SDLC-phased implementation plans using AI-powered analysis
- Implemented automated generation of project scaffolding including agent configurations, MCP server setups, skill installations, documentation plans, and Mermaid.js flow diagrams for visual architecture representation
- Designed dark-themed single-page application with tabbed navigation, typewriter animations, copy-to-clipboard functionality, and file upload/export capabilities for seamless developer workflow

Talent-Meet | *Next.js, TypeScript, Convex, WebSockets, Clerk, Stream*

[Link](#)

- Built scalable backend infrastructure for real-time coding interviews with WebSocket-based video, screen sharing, and live code sync, handling multiple concurrent sessions with horizontal scaling capability
- Designed database schema and implemented RESTful APIs using Convex for real-time synchronization, achieving low-latency updates (<100ms) through optimized query patterns and efficient indexing

CodeZ | *Next.js, Convex, Gemini API, OAuth 2.0, TypeScript*

[Link](#)

- Architected backend services for AI-powered coding assistant with RESTful endpoints for real-time code generation and debugging, implementing rate limiting and caching for production-scale traffic

- Integrated OAuth 2.0 authentication system with secure token management and designed database schema with Convex for efficient data storage, optimizing read/write patterns for high-throughput scenarios

LingoLearn | *Next.js, Groq LLM, Lingo.dev SDK, TypeScript, YouTube API*

[Link](#)

- Built AI-powered quiz generation system that transforms YouTube videos into interactive learning sessions with automated quiz breakpoints, supporting 130+ languages through Lingo.dev SDK integration
- Engineered custom YouTube transcript extraction using raw Node.js HTTPS module to bypass Next.js caching issues, implementing chunked processing pipeline for handling 2-hour video transcripts efficiently
- Designed nested object translation system with flatten-batch-reconstruct pipeline for translating quiz structures, processing 50-string chunks in parallel batches to optimize API calls and reduce latency

Education

Coorg Institute of Technology

Bachelor of Engineering in Artificial Intelligence and Machine Learning, CGPA: 8.1/10

Nov 2021 – Jul 2025

Ponnampet, Karnataka

Shri Sharada PU College

Pre-University (Physics, Chemistry, Mathematics, Computer Science), 92.33%

2019 – 2021

Koppal, Karnataka

Achievements & Certifications

Represented college at JITHack-24 (24-hour hackathon, Bangalore) and multiple competitive coding competitions

Published technical blog on DEV Community detailing AI-powered YouTube learning platform architecture and implementation

Oracle Generative AI Professional Certification

Attended Google DevFest 2025, Bengaluru – engaged with Google Cloud and distributed systems technologies