

# VIKAS PAL

Software Developer | Full-Stack Development | AI/ML Applications | Agile Expertise

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## SUMMARY

Full-Stack Developer with 2 years of experience delivering scalable web applications. Proficient in React.js, Python, and .NET, specializing in microservices, API optimization, and CI/CD pipelines. Achieved a 30% improvement in API response times and sustained 99.9% platform uptime through targeted optimizations. Demonstrates effective team leadership, implements cost-efficient strategies (reduced LLM overhead by 40%), and consistently delivers high-quality results under tight deadlines.

## EXPERIENCE

### Software Developer

Zeus Learning    01/2023 - Present    India

- Built an AI-powered test platform using React.js and Python/Django, sustaining 99.9% uptime under peak traffic.
- Architected microservices to handle up to 50,000 concurrent requests daily, ensuring consistent performance.
- Engineered semantic caching mechanisms to reduce redundant computations, cutting LLM costs by 40%.
- Coordinated a team of 4 developers, facilitating weekly cross-team stakeholder meetings, reducing deployment errors by 95%, and meeting 100% of project deadlines.
- Optimized code maintainability by implementing modular patterns, reducing debugging time by 20%.
- Implemented a automated CI/CD pipeline using AWS DevOps tools, reducing manual intervention in the deployment process by 95% and decreased error rates.
- Facilitated bi-weekly cross-team sessions involving 10+ stakeholders, streamlining communication between technical and non-technical teams, reducing project delays by 25%.
- Led monthly cross-departmental meetings with 15+ participants, improving alignment and cutting inter-team miscommunications by 30%.

Project name	Description
TestMaverick	TestMaverick – AI-powered test-taking platform
MavGuide	RAG-based AI Chatbot for context-driven queries.

## PROJECTS

### Mav-Guide

RAG-based AI Chatbot for context-driven queries.

- Engineered a retrieval-augmented chatbot with React.js and Flask, **handling over 5,000 monthly queries at a 95% accuracy rate.**
- Deployed escalation protocols for 20% of complex queries, **raising the user satisfaction rating from 80% to 95%** and reducing unresolved tickets.

### Test Maverick

Test Maverick – AI-powered test-taking platform.

- Designed a comprehensive full-stack test-taking platform (React.js + Python/Django), **increasing responsiveness by 50% during heavy load.**
- Maintained 99.9% uptime under substantial demand, eliminating service interruptions during critical assessments.

## KEY ACHIEVEMENTS

- Overhauled React.js components, elevating active user engagement by 20% (from 10,000 to 12,000).
- Streamlined server processes, cutting API response times by 30% (from 200ms to 140ms).
- Deployed semantic caching strategies that lowered chatbot expenses by 40%, saving \$50,000 annually.
- Improved user sentiment from 80% to 95% positive feedback by refining fallback mechanisms.

## SKILLS

### Front-End Development

React, Vue, Next.js, JavaScript(ES6+), Tailwind CSS

### Back-End Development

Python, .NET, Django, Flask, RESTful APIs

### DevOps & Tools

CI/CD Pipelines, Docker, Git, MySQL Workbench, Vercel

### Software Design

Microservices, SOLID Principles, API Design, Caching

## EDUCATION

### Bachelor of Computer Engineering

LDRP-ITR

01/2019 - 05/2023

India

- Final-year project: React.js- based Campaign Management Platform.
- Relevant Coursework: Software Development, Data Structures, Machine Learning

## STRENGTHS

- Deadline-focused solution delivery  
Consistently achieves project milestones within set timelines.
- API performance expertise  
Skilled in optimizing throughput and minimizing latency at scale.