

# PRATEET MISHRA

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## SUMMARY

Software Developer with robust software engineering experience and a keen interest in machine learning. Designed and implemented full-stack solutions, including responsive web apps and automated notification systems, to enhance user engagement and secure transactions. Proficient in modern web frameworks, database management, and data analytics.

## EDUCATION

<b>University of Southern California</b> <i>Master's, Computer Science, GPA: 3.4/4.0</i>	<b>Jan 2024 - Present</b>
<ul style="list-style-type: none"><li>Relevant Coursework: Analysis of Algorithms, Web Technologies, Information Retrieval &amp; Web Search Engines, Computer Security</li><li><b>Technical Student Lead</b>, Information Technology Services - mentored <b>50+ assistants</b>; primary POC with ITS engineers</li></ul>	

<b>Symbiosis University of Applied Sciences</b> <i>Bachelor of Technology, Computer Science and Information Technology, GPA: 9.23/10</i>	<b>Aug 2019 - Jun 2023</b>
<ul style="list-style-type: none"><li>Relevant Coursework: Object-Oriented Design, Database Management, Cloud Computing</li></ul>	

## EXPERIENCE

<b>NICT Technologies Pvt. Ltd.</b> <i>Software Developer Intern</i>	<b>Sep 2022 - Dec 2022</b> <i>Indore, India</i>
<ul style="list-style-type: none"><li>Coordinated with a 6-member team to develop a decentralized NFT Marketplace using Ethereum, ReactJS, delivering a responsive, full-stack user experience.</li><li>Boosted user engagement by ~25% through secure, real-time NFT browsing and transactions, aligning with modern data analytics and communication needs.</li><li>Integrated MetaMask to enable encrypted ETH to buy/sell/resell with full smart-contract compatibility, reducing payment-step drop-off from 38% → 19%.</li><li>Implemented auth plus NFT mint/list/bid via Web3.js, increasing mint→listing completion by ~15% and reducing failed transactions by ~26%.</li></ul>	

  

<b>Ypsilon IT Solutions Pvt. Ltd.</b> <i>Software Developer Intern</i>	<b>Jun 2022 - Sep 2022</b> <i>Remote, India</i>
<ul style="list-style-type: none"><li>Orchestrated cross-module integration for a 4-member team, ensuring seamless working of 3 core flows (listing, bidding, checkout)</li><li>Engineered listing/bidding/checkout UIs and REST APIs for real-time updates and async bids, delivering 12 endpoints (≈120 ms p95) and cutting manual page refreshes by two-thirds.</li><li>Designed a role-based alert module (200+ notifications/auction) that improved user retention by ~13.5% and streamlined stakeholder communications.</li></ul>	

## ACADEMIC PROJECTS

<b>Stocks Trading &amp; Analytics Platform</b>	
<ul style="list-style-type: none"><li>Implemented real-time stock search across 100+ tickers by streaming quotes via Redis Streams into an Angular + Highcharts UI with Top News &amp; Insights, powered by event-driven Express/Node microservices for sub-second latency.</li><li>Developed watchlist + wallet trading with OAuth 2.0 sessions and virtual balances; executed buy/sell with live prices &amp; P/L over WebSockets with visual feedback.</li><li>Deployed to Kubernetes (GCP) with probe-based health and automated restarts, meeting a 99.99% availability target.</li></ul>	
<b>WeBudget – AI-driven Budgeting &amp; Bill-Splitting App</b>	
<ul style="list-style-type: none"><li>Deployed a full-stack budgeting/bill-split app to 50+ beta users; Splitwise-style sharing + AI receipt OCR with ~95% categorization accuracy.</li><li>Architected secure auth and automated 10+ recurring expenses via Clerk/Arcjet/Ingest, delivering ~99% uptime and saving ~3 hrs/month/user.</li><li>Constructed a responsive shadcn/ui + Next.js UI with Prisma + Supabase real-time collaboration on 200+ pilot transactions.</li></ul>	
<b>SmartMedAI</b>	
<ul style="list-style-type: none"><li>Fine-tuned an LLM for medical Q&amp;A with RLAIF on a curated clinical Q&amp;A set, strengthening healthcare domain recall.</li><li>Built a <b>reward model</b> (evaluator LLM) to score candidate answers and guide RL updates for higher-quality responses.</li><li>Optimized via RL and validated on 200 USMLE-style questions: DeepSeek-R1 accuracy 0.769 → 0.805 (+4.7%), BERTScore F1 0.621 → 0.651 (+4.8%), BLEURT 0.527 → 0.568 (+7.8%).</li></ul>	

## TECHNICAL SKILLS

<ul style="list-style-type: none"><li><b>Languages:</b> Python, SQL, JavaScript/TypeScript, HTML5, CSS3</li><li><b>Frameworks &amp; Tools:</b> Ruby/Rails, React, Angular, Next.js, Node.js, Express, REST API, WebSockets, Tailwind CSS, shadcn/ui, Prisma, PostgreSQL, MongoDB, Supabase, Docker, Kubernetes, CI/CD, Git/GitHub, Agile Technology, Machine Learning, Statistical Modeling, Deep Learning, Data Analysis, TensorFlow, LLM, GenAI, NLP</li></ul>
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