

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

University of Southern California

Jan 2024 - Present

Master's, Computer Science, GPA: 3.4/4.0

- Relevant Coursework: Analysis of Algorithms, Web Technologies, Information Retrieval & Web Search Engines, Computer Security
- **Technical Student Lead**, Information Technology Services - mentored **50+ assistants**; primary POC with ITS engineers

Symbiosis University of Applied Sciences

Aug 2019 - Jun 2023

Bachelor of Technology, Computer Science and Information Technology, GPA: 9.23/10

- Relevant Coursework: Object-Oriented Design, Database Management, Cloud Computing

EXPERIENCE

NICT Technologies Pvt. Ltd.

Sep 2022 - Dec 2022

Software Developer Intern

Indore, India

- Coordinated with a 6-member team to develop a decentralized NFT Marketplace using Ethereum, ReactJS, delivering a responsive, full-stack user experience.
- Boosted user engagement by ~25% through secure, real-time NFT browsing and transactions, aligning with modern data analytics and communication needs.
- Integrated MetaMask to enable encrypted ETH to buy/sell/resell with full smart-contract compatibility, reducing payment-step drop-off from 38% → 19%.
- Implemented auth plus NFT mint/list/bid via Web3.js, increasing mint→listing completion by ~15% and reducing failed transactions by ~26%.

Ypsilon IT Solutions Pvt. Ltd.

Jun 2022 - Sep 2022

Software Developer Intern

Remote, India

- Orchestrated cross-module integration for a 4-member team, ensuring seamless working of 3 core flows (listing, bidding, checkout)
- 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.
- Designed a role-based alert module (200+ notifications/auction) that improved user retention by ~13.5% and streamlined stakeholder communications.

ACADEMIC PROJECTS

Stocks Trading & Analytics Platform

- Implemented real-time stock search across 100+ tickers by streaming quotes via Redis Streams into an Angular + Highcharts UI with Top News & Insights, powered by event-driven Express/Node microservices for sub-second latency.
- Developed watchlist + wallet trading with OAuth 2.0 sessions and virtual balances; executed buy/sell with live prices & P/L over WebSockets with visual feedback.
- Deployed to Kubernetes (GCP) with probe-based health and automated restarts, meeting a 99.99% availability target.

WeBudget – AI-driven Budgeting & Bill-Splitting App

- Deployed a full-stack budgeting/bill-split app to 50+ beta users; Splitwise-style sharing + AI receipt OCR with ~95% categorization accuracy.
- Architected secure auth and automated 10+ recurring expenses via Clerk/Arcjet/Inngest, delivering ~99% uptime and saving ~3 hrs/month/user.
- Constructed a responsive shadcn/ui + Next.js UI with Prisma + Supabase real-time collaboration on 200+ pilot transactions.

SmartMedAI

- Fine-tuned an LLM for medical Q&A with RLAIF on a curated clinical Q&A set, strengthening healthcare domain recall.
- Built a **reward model** (evaluator LLM) to score candidate answers and guide RL updates for higher-quality responses.
- 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%).

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript/TypeScript, HTML5, CSS3
- **Frameworks & Tools:** 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