UTSAV MISHRA

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Experience

PPR Capital
Founder's Office Operator – Growth Systems & Automation

Nov. 2025 – Jan. 2026
Remote, Melbourn, Australia

- Improved email deliverability by rebuilding Smartlead/Plusvibe infrastructure with domain hygiene controls, blocklists, and segmentation logic, achieving **40%+ increase in inbox placement rate** tracked via campaign analytics
- Cleaned and normalized **4K+ contact records** from HubSpot CRM by building Python ETL pipeline using Pandas and Matplotlib for data analysis, implementing fuzzy matching with RapidFuzz and email verification via Snov/FindyMail/Hunter.io
- Engineered automated lead enrichment workflow using Node.js and Snov API integration, processing **1K+ leads/week** with real-time validation and routing, reducing manual operations effort significantly
- Designed and deployed AI-powered personalized outbound experiments (HeyGen video, ringless voicemail) using GPT-4 and custom prompt engineering, improving campaign response rates tracked via Smartlead metrics
- Architected contact validation system with multi-stage filtering (email verification, domain check, job title matching) preventing majority of invalid leads from entering outbound pipeline

Bluestock Fintech
Software Development Engineer Intern

Jun. 2025 – Aug. 2025
Remote, Pune, India

- Fixed performance bottleneck in stock watchlist component serving 500K+ users by implementing React.memo, useMemo, and virtual scrolling with TypeScript, significantly reducing re-renders and achieving smooth 60fps updates
- Prevented production regressions by building comprehensive Jest/React Testing Library test suite with mock WebSocket handlers and edge case coverage, achieving high test coverage and catching multiple critical bugs pre-deployment
- Accelerated feature delivery by establishing reusable component library with Storybook documentation and TypeScript interfaces, reducing new feature development time
- Enhanced code quality through active participation in Agile ceremonies (daily standups, sprint planning, retrospectives) and regular code reviews with actionable feedback

Suvidha Foundation
Web Development Intern

Sep. 2025 – Oct. 2025
Remote, Nagpur, India

- Enhanced mobile user experience by implementing responsive design with CSS Grid/Flexbox and TailwindCSS, achieving strong Lighthouse scores across all metrics and supporting multiple screen sizes
- Secured platform authentication by integrating JWT-based auth with Node.js/Express backend, bcrypt password hashing, and refresh token rotation, handling growing user base

SM Infotech Solutions & Mishra Dynamics
Full Stack Engineer

Feb. 2024 – Jun. 2025
Remote, Global

- Contributed to **8+ client projects & contracts** by architecting full-stack solutions with React/Next.js frontends and Node.js/Python backends, maintaining high uptime and consistent delivery timelines
- Built e-commerce platforms with Stripe/Razorpay integration, cart optimization, and inventory management, enabling clients to process online transactions efficiently
- Improved real-time messaging system performance by implementing WebSocket architecture with Redis pub/sub, message queuing, and connection pooling, supporting multiple concurrent users
- Reduced operational costs for AI content generation tools by architecting multi-provider LLM system (OpenAI, Gemini, Groq) with intelligent fallback logic and token optimization strategies
- Accelerated deployment cycles by containerizing applications with Docker, implementing CI/CD pipelines with GitHub Actions, and orchestrating microservices on AWS/VPS with automated health checks

Projects

OmniAgent Studio | *Next.js, TypeScript, Supabase Vector, Clerk, Framer Motion*   **2026**
- Engineered multi-agent orchestration platform with command palette UI enabling parallel execution of GPT-4, Claude 3.5, and Gemini agents, significantly reducing task completion time vs sequential processing
- Built RAG pipeline using Supabase Vector database with semantic search for context-aware agent responses with low query latency
- Implemented real-time observability dashboard with token tracking, cost analysis, and performance metrics using React Query and WebSocket for data-driven optimization
- Secured enterprise-grade authentication with Clerk multi-factor auth, role-based access control, and session management | Live

AI Counsellor | *Next.js, Prisma, PostgreSQL, Groq, Upstash Vector*   **2026**
- Developed voice-enabled AI therapy platform using Groq (Llama 3.3 70B) with speech-to-text and text-to-speech integration, achieving fast response times for natural conversations
- Designed 4-stage progressive disclosure UI with Framer Motion micro-interactions and WebGL shaders, creating engaging onboarding experience
- Implemented contextual discovery system using Upstash Vector semantic search with cosine similarity, delivering personalized therapy resources based on conversation analysis
- Architected stage-gate progression logic with NextAuth.js session management and PostgreSQL state tracking | Live

Moodyx - Mental Wellness Platform | *Next.js, Turso, Redis, Groq, Gemini*   **Sep. 2025 – Nov. 2025**
- Built comprehensive mental health ecosystem with mood tracking analytics, AI therapy chatbot, and crisis detection system with growing user base
- Engineered multi-model AI orchestration with intelligent provider selection (Groq, Gemini 1.5, HuggingFace) and SSE streaming for real-time therapeutic conversations
- Implemented RAG-powered personalization using Turso edge SQLite and vector similarity search, providing context-aware support based on user history
- Integrated automatic crisis detection with NLP sentiment analysis and emergency intervention workflow, plus Spotify/YouTube wellness APIs | Website

Frontend Clones Portfolio | *React, Next.js, TailwindCSS, TypeScript, Three.js*   **2025 –Ongoing**
- Created pixel-perfect replicas of modern SaaS interfaces (Cursor, Grok, Reflex) demonstrating advanced React patterns, animation libraries, and responsive design techniques
- Implemented complex UI interactions with Framer Motion spring animations, gesture handlers, and Three.js 3D elements, achieving strong Lighthouse performance scores
- Optimized bundle size through code splitting, dynamic imports, tree shaking, and Next.js Image optimization | Portfolio

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, PHP, SQL
Frontend: React, Next.js, Three.js, TailwindCSS, Redux, Zustand, Framer Motion
Backend: Node.js, Express.js, FastAPI, RESTful APIs, Microservices, WebSocket, Laravel
AI/LLM: OpenAI (GPT-4), Gemini, Groq (Llama, Mixtral), Ollama, LangChain, RAG, Vector DBs
Database: PostgreSQL, MySQL, MongoDB, Redis, Turso, Supabase, Prisma ORM, Drizzle ORM
DevOps & Cloud: Docker, AWS, Git, CI/CD, GitHub Actions, Vercel, Jest, Playwright, Datadog

Education

Dr. Ram Manohar Lohia Avadh University   **2026 (Expected)**
Bachelor of Computer Applications (BCA)   *Faizabad, India*

Achievements

Hackathon Success: Advanced to 2nd round in Frontend Battle 2.0 (IIT Bhubaneswar, 500+ participants); Finalist at Odoo × Amalthea IIT Gandhinagar 2025 and Multiple Hackathons (Full-Stack/AI/VR-180) of (Humanity Founders (SF, US))

Production Impact: Deployed applications serving concurrent users with high uptime; Maintained strong client satisfaction across multiple freelance projects