Tran Anh Duc

SENIOR REACT NATIVE DEVELOPER
AI INTEGRATION SPECIALIST

PROFESSIONAL SUMMARY

Senior React Native Developer with 4+ years of experience building mobile and web apps at scale. Specialized in React Native, Next.js 15, and AI integration (GPT-4o, Whisper, TensorFlow.js). Successfully launched 50+ apps serving over 2M users in fintech, healthcare, and IoT. Proven track record in performance optimization, cross-platform architecture, and AI-powered features with 95% accuracy and sub-50ms response times.

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Porfolio:
https://porfolio-ocean28799s-projects.vercel.app/

KEY SKILLS

- Programming Languages: JavaScript (Expert), TypeScript (Expert), Python (Intermediate), SQL (Advanced), Swift/Kotlin (Basic)
- Mobile Development: React Native, Expo SDK 50+, Native Modules (Java/Swift), Reanimated, AsyncStorage
- Web Development: Next.js 15, React.js 18, TypeScript 5.0, Angular (Basic), Progressive Web Apps, SSR
- AI/ML Technologies: OpenAI GPT-4o, Whisper API, DALL·E 3, TensorFlow.js, Computer Vision, NLP
- Backend & APIs: Node.js, Express.js, RESTful APIs, GraphQL, Serverless Functions
- Databases: PostgreSQL, MongoDB, Supabase, Redis, Firebase, Prisma ORM, Vector DBs
- Cloud & DevOps: AWS (Lambda, IoT, S3), Vercel, Docker, GitHub Actions, CI/CD (Fastlane, Bitrise)
- Real-time Systems: WebRTC, WebSocket, Socket.io, MQTT
- Testing & Quality: Jest, React Testing Library, Detox, E2E Testing, Code Splitting
- UI/UX & Styling: TailwindCSS, Styled Components, Framer Motion, Accessibility (WCAG), Responsive Design
- State Management: Zustand, Redux Toolkit, React Query, Context API
- Payment Integration: Stripe, PayPal, Subscription Systems, Financial APIs
- Workflow & Methodology: Agile / Scrum, Team Collaboration, Technical Documentation

PROFESSIONAL EXPERIENCE

Senior React Native & AI Developer – Freelance / Remote
2021 – Present
Remote | Projects across Fintech, IoT, Healthcare, EdTech

- Led development of 50+ cross-platform applications using React Native, Next.js, and TypeScript, serving 2M+ users across 15+ countries.
- Specialized in AI integration (OpenAI GPT-4o, Whisper, TensorFlow.js) with 95% feature accuracy and <50ms latency.
- Improved app performance by up to 40%, reducing memory usage and increasing responsiveness across mobile and web.
- Architected scalable systems using Supabase, Prisma, Redis, AWS Lambda, and WebRTC.
- Mentored junior developers and coordinated remote teams across time zones.
- Key Tech Stack: React Native, Next.js 15, OpenAI API, Whisper, Supabase, Vercel, Zustand, PostgreSQL

MAJOR AI PROJECTS

Real Estate AI Prediction Platform
https://ai.gate.estate/
- Developed a full-featured real estate prediction platform using Angular and Next.js
- Built responsive dashboards with real-time market analytics using TypeScript and REST APIs
- Integrated Google Maps API for dynamic location-based property search
- Improved performance with lazy loading and SSR optimizations in Next.js

AI Virtual Assistant - Cross-Platform App
https://poe.com/
- Developed an AI-powered assistant with React Native, Next.js 15, OpenAI GPT-4o, and Whisper API, supporting real-time conversations, document analysis, and image recognition.
- Implemented WebRTC for cross-platform voice/video interactions and Supabase + Vector DB for backend storage and semantic search.
- Achieved 95% response accuracy, <50ms latency, and served 10K+ users.

Smart Analytics & Business Intelligence App
https://hex.tech/
- Built enterprise-grade analytics app using React Native, TypeScript, and OpenAI API, offering real-time dashboards, AI insights, and predictive analytics.
- Integrated TensorFlow.js, Redis, and D3.js for visualization and performance, supporting natural language queries.
- Helped enterprises make decisions 40% faster, with 500+ companies adopting.

AI Content Creation & Marketing Platform
https://www.jasper.ai/
- Developed a SaaS platform for AI-powered content using Next.js 15, OpenAI GPT-4, and DALL·E 3.
- Enabled multi-modal content generation, brand voice customization, and marketing automation.
- Reduced content creation time by 3x, supporting 1,000+ brands.

Smart Home Ecosystem with AI Automation
https://www.samsung.com/us/smartthings/
- Engineered IoT platform using React Native, MQTT, AWS IoT, and TensorFlow.js for AI-driven energy optimization and predictive maintenance.
- Implemented natural language control with OpenAI and support for 100+ smart devices.
- Resulted in 30% energy savings and 95% user satisfaction.

AI-Powered Trading & Portfolio Management
https://alpaca.markets/
- Built fintech app with real-time market data, AI trading signals, and risk analysis using React Native, TensorFlow.js, and Firebase.
- Integrated biometric authentication and Zustand state management for secure UX.
- Delivered 20% higher returns and 10x faster investment insights.

AI-Enhanced Multi-Vendor Marketplace
https://medusajs.com/modules/
- Created e-commerce platform with Next.js 15, Algolia, and Stripe, offering AI product recommendations, dynamic pricing, and inventory forecasting.
- Built vendor dashboards and personalized user flows across React Native + Web.
- Boosted sales by 50%, cut inventory costs by 40%.

AI Health Monitoring & Telemedicine App

https://doxy.me/en/

- Designed healthcare app using React Native, TensorFlow.js, and OpenAI API for symptom analysis, telemedicine, and HIPAA-compliant patient records.
- Integrated HealthKit, WebRTC, and Supabase for real-time health data sync.
- Reduced hospital visits by 70%, with 90% user satisfaction.

AI Tutoring & Learning Management System

https://www.gradescope.com/

- Built EdTech platform using Next.js 15, OpenAI GPT-4, and React Native for adaptive learning, real-time collaboration, and multilingual AI tutors.
- Delivered 50% improvement in learning outcomes, supporting 100K+ students.

EDUCATION

Bachelor of Science in Computer Science | 2017-2021

Ho Chi Minh City University of Foreign Languages – Information Technology

- Relevant Coursework: Programming Fundamentals, Data Structures and Algorithms, Software Engineering, Computer Systems & Architecture, Databases, Computer Networks, Web Development, Object-Oriented Programming, Discrete Mathematics
- GPA: 3.5