Andy Chan

Full-Stack Developer | AI Integration Specialist

⌞ Brockport, NY, USA

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PROFESSIONAL SUMMARY

Full-stack developer specializing in AI integration and automation with 3+ years of experience building scalable web applications. Expert in Next.js, React, and modern JavaScript frameworks. Proven track record of implementing AI-powered features, automating workflows, and delivering production-ready solutions. Strong focus on performance optimization, user experience, and clean code architecture.

TECHNICAL SKILLS

Frontend

React, Next.js (App Router), TypeScript, JavaScript (ES6+), Tailwind CSS, Framer Motion, HTML5, CSS3

Backend & APIs

Node.js, Next.js API Routes, REST APIs, Express.js, FastAPI, Python, Authentication & Authorization

AI & Automation

OpenAI API, LLM Integration, Prompt Engineering, AI Workflows, LangChain, Data Pipeline Automation

Tools & Platforms

Git, GitHub, Vercel, Netlify, Docker, MongoDB, Supabase, Firebase, Postman, Figma, VS Code

PROFESSIONAL EXPERIENCE

Freelance Full-Stack Developer
2022 – Present

Self-Employed

- Developed and deployed 5+ production web applications using Next.js, React, and modern JavaScript frameworks
- Implemented AI-powered features including LLM integrations, automated content processing, and intelligent workflows
- Built automation systems reducing manual tasks by 40% through API integrations, webhooks, and scheduled processes
- Optimized application performance achieving 90+ Lighthouse scores and reduced load times by 35%
- Created responsive, mobile-first designs with accessibility compliance (WCAG 2.1 AA standards)

KEY PROJECTS

Portfolio Website with AI-Enhanced Features
2023 – 2024

Next.js · React · Tailwind CSS · RSS Integration · Email Automation

- Built responsive portfolio with 3-panel layout, dark mode, and smooth animations using Framer Motion
- Implemented RSS feed proxy with fallback handling, reducing API failures by 95% and improving UX reliability
- Integrated EmailJS automation for contact forms with validation, spam protection (honeypot), and real-time feedback
- Achieved 98 Lighthouse performance score through image optimization, code splitting, and efficient caching strategies

Taste of Nepal Restaurant Website
2022 – 2023

Next.js · React · Tailwind CSS · SEO Optimization

- Designed and developed modern restaurant website showcasing Nepalese cuisine with culturally authentic design
- Implemented SEO best practices resulting in 85% improvement in search engine visibility and organic traffic
- Created responsive design ensuring optimal experience across all devices with 100% mobile compatibility

ArrayWall - Cross-Platform Mobile App
2023 – 2024

React Native · Expo · Supabase · Cloudinary · Clerk Auth

- Developed and published cross-platform wallpaper app on both iOS App Store and Google Play Store

- Implemented image caching and optimization reducing data usage by 60% and improving load times by 50%
- Built tag-based discovery system and bookmark functionality with offline support for enhanced user experience
- Integrated secure authentication and media storage solutions handling 10,000+ images with Cloudinary CDN

AI Education Pilot Research Project   2024 – 2025

FastAPI · OpenAI API · LLM Integration

- Designed and prototyped AI-powered educational assistant using FastAPI and OpenAI for learning enhancement
- Implemented prompt engineering and guardrails ensuring safe, accurate AI responses for educational content
- Created API architecture supporting content summarization, Q&A, and personalized learning recommendations

EDUCATION

SUNY Brockport

Bachelor of Science, Computer Science
Concentration: Software Development
GPA: 3.52 / 4.0

2022 – Present

CERTIFICATIONS

freeCodeCamp
JavaScript Algorithms and Data Structures

freeCodeCamp
Responsive Web Design

ADDITIONAL SKILLS

Full-Stack Development   AI Integration   API Development   RESTful APIs   Responsive Design   Performance Optimization   SEO

Git Version Control   Agile Methodologies   Problem Solving   Code Review   Technical Documentation   Cross-Platform Development

Database Design   Cloud Deployment   CI/CD   Test-Driven Development