

# Junghyun(Andy) Lee

Full-Stack Developer | AI Integration Specialist

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Portfolio: [portfolio-three-eta-89uh4sqi5c.vercel.app/](https://portfolio-three-eta-89uh4sqi5c.vercel.app/)

## PROFESSIONAL SUMMARY

Full-stack developer with 5+ years of professional experience building scalable web applications and AI-powered solutions. KAIST Computer Science graduate specializing in Next.js, React, TypeScript, and OpenAI API integration. Successfully delivered 12+ production applications with 95+ average Lighthouse scores, reduced client operational costs by 35% through automation, and maintained 95%+ client satisfaction rate. Expert in modern JavaScript frameworks, cloud deployment, performance optimization, and full-stack development with proven track record in both startup and enterprise environments.

## EDUCATION

### KAIST (Korea Advanced Institute of Science and Technology)

Bachelor of Science, Computer Science

Concentration: Software Engineering & AI

GPA: 3.8 / 4.0

2015 – 2019

## CERTIFICATIONS

### FreeCodeCamp Certified

JavaScript Algorithms and Data Structures

### AWS Certified

Cloud Practitioner

### CS Degree

Computer Science Bachelor's

## LANGUAGE SKILLS

### Korean

Native

### English

Fluent (Professional)

### Chinese

Conversational

## TECHNICAL SKILLS

### Frontend & UI

React 18, Next.js 14 (App Router), TypeScript, JavaScript (ES2023), Tailwind CSS, Framer Motion, HTML5, CSS3, Responsive Design

### Backend & APIs

Node.js, Next.js API Routes, REST APIs, GraphQL, Express.js, FastAPI, Python, PostgreSQL, MongoDB, Prisma ORM

### AI & Automation

OpenAI API (GPT-4), LangChain, Prompt Engineering, AI Workflows, Vector Databases, RAG Implementation, Automation Scripts

### DevOps & Cloud

Vercel, Netlify, AWS, Docker, Git/GitHub, CI/CD, Performance Optimization, SEO, Web Vitals, Lighthouse

# PROFESSIONAL EXPERIENCE

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## Senior Full-Stack Developer

2019 – Present

### *Freelance & Contract Work*

- Delivered 12+ production web applications for clients including startups and SMEs, achieving 95+ average Lighthouse performance scores
- Implemented AI-powered features using OpenAI API and LangChain, resulting in 50% improvement in user engagement and 35% reduction in operational costs
- Built e-commerce platforms and business applications processing 50K+ monthly transactions with 99.5% uptime
- Developed mobile applications published on App Store and Google Play with 4.2+ star ratings and 5K+ downloads
- Optimized legacy applications reducing load times by 55% and server costs by 25% through modern architecture and caching strategies
- Maintained 95%+ client satisfaction rate with consistent on-time delivery and exceeded project requirements in 85% of engagements

# KEY PROJECTS

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## AI Chat Assistant

OpenAI API · Next.js · LangChain · TypeScript · Vercel AI SDK

- Built intelligent chatbot with OpenAI GPT models and LangChain for context-aware conversations
- Implemented multi-turn conversations, custom knowledge base integration, and streaming responses
- Created conversation history management and export functionality for enhanced user experience

## RealWorld Full-Stack Application

Next.js · Node.js · PostgreSQL · TypeScript · Prisma · JWT

- Developed production-ready full-stack application following RealWorld specification and best practices
- Implemented user authentication, CRUD operations, real-time updates, and comprehensive error handling
- Built responsive design with pagination and optimized database queries using Prisma ORM

## E-Commerce Platform

Next.js · Node.js · PostgreSQL · Stripe · TypeScript · Tailwind CSS

- Built comprehensive e-commerce solution with shopping cart, payment processing, and inventory management
- Integrated Stripe payment gateway with secure transaction handling and order tracking system
- Developed admin dashboard for product management, sales analytics, and customer relationship management

## Cross-Platform Weather Application

React Native · Expo · TypeScript · Location Services · AsyncStorage

- Developed feature-rich weather app with location-based data, 7-day forecasts, and weather maps
- Implemented push notifications, offline support, and smooth animations for enhanced user experience
- Published on both iOS App Store and Google Play Store with 4.2+ star ratings

## Modern Dashboard UI

React · TypeScript · Tailwind CSS · Recharts · Framer Motion

- Built responsive dashboard with real-time data visualization, interactive charts, and dark mode support
- Implemented advanced filtering, search functionality, and smooth animations using Framer Motion
- Achieved 92+ Lighthouse performance score through code optimization and efficient state management

# CORE COMPETENCIES

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Agile Methodologies · RESTful API Design · Database Design · Performance Optimization · SEO & Web Vitals · Responsive Design

Version Control (Git) · CI/CD Pipelines · Code Review · Technical Documentation · Problem Solving · Cross-Platform Development