Andy Deng

New York, NY | andydeng0224@gmail.com **|** 908-267-1668 | linkedin.com/in/andydeng- | andydeng.me

SKILLS

Languages: JavaScript/TypeScript, Python, Ruby, Java; **Frameworks:** Next.js, React, Rails, Django;
AI: Claude Code, LLM Prompt Engineering; **Infrastructure:** AWS, Git, Docker, PostgreSQL, Redis; **Testing:** RSpec, Playwright, Pytest, Jest;

EXPERIENCE

Pegasystems   Boston, MA
Software Engineer   May 2025 – Present
- Shipped AI-assisted Blueprint generation features end-to-end, building React/TypeScript interfaces and Java APIs to process and persist artifacts across 1M+ Blueprints
- Reduced initial load time from 6s to 1.5s and improved performance by up to 75% through frontend rendering optimizations and backend API/service refactoring
- Engineered prompt templates and LLM output parsing with structured fallbacks across multiple providers via a dependency-injected model abstraction layer
- Designed core Java services, APIs, and data models for AI-generated Blueprint artifacts, defining schemas and maintaining backward compatibility
- Led cross-team frontend and backend architecture improvements, standardizing shared components, accessibility patterns, and code quality
- Built a centralized React context layer for AI-generated diffs, enabling incremental change highlighting without full re-renders

forREAL   Boston, MA
Software Engineer   Sep 2024 – May 2025
- Built a 0–1 property management platform (Next.js and Django) supporting listings with geospatial search, lease workflows, identity verification, document signing, maintenance tracking, and automated payments
- Established test-driven development, writing 500+ Pytest unit and integration tests covering payments and leases
- Reduced Google Maps API usage by 70% by implementing clustering, caching, and lazy loading for apartment listings and points of interest

Vanta   Remote
Software Engineer Intern   Aug 2023 – Feb 2024
- Reduced Stream Chat API costs by $500/month by building a Redis-based real-time notification system handling 10k+ daily messages
- Implemented idempotent Stripe payment flows with transactional safeguards, processing 1k+ orders
- Maintained Playwright and RSpec test suites, preventing regressions across core application workflows

PROJECTS

r/Shorts · rshorts.app
- Built an AI-powered video generator that converts text prompts into fully narrated, captioned short-form videos using OpenAI, ElevenLabs, and FFmpeg for script and voice synthesis
- Engineered a serverless rendering pipeline with Remotion, and AWS Lambda + S3, handling end-to-end video processing and delivery at scale
- Optimized end-to-end pipeline to ~$0.015 per video across AI script generation, voice synthesis, Remotion rendering, and S3 storage

Leafpad · leafpad.app
- Shipped a unified developer toolkit combining a markdown editor, JSON formatter, and diffing tool into a single, modern, distraction-free web app used by 150+ monthly users

EDUCATION

Boston College   Chestnut Hill, MA
Bachelor of Arts in Computer Science, GPA: 3.7   May 2024