Andy Deng

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SKILLS

Languages: Python, JavaScript/TypeScript, Ruby, Java, SQL; **Frameworks:** Next.js, React, Rails, Django;
Tools: Git, Docker, Linear, Jira; **Databases:** PostgreSQL, Redis, AWS (S3, RDS); **Testing:** RSpec, Playwright, Pytest, Jest; **Cloud Services:** Azure, Heroku, Vercel, Firebase

EXPERIENCE

Pegasystems   Boston, MA
Software Engineer   *May 2025 – Present*
- Developed numerous 0-1 features for Blueprint AI products serving over 1 million blueprints, implementing complex UI components and backend data structures using React, TypeScript, and REST APIs
- Improved performance by reducing initial load times by 75% and improving app-wide performance by 25-75% through frontend optimization, backend API refactoring, and caching strategies
- Contributed to internal React component library used across Pega's engineering organization, ensuring accessibility compliance and TypeScript best practices
- Conducted numerous code reviews across Blueprint features and component libraries, maintaining high code quality standards

forREAL   Boston, MA
Software Engineer   *Sep 2024 – May 2025*
- Architected and built end-to-end property management platform from 0-1 using Next.js and Django, handling apartment listings with interactive maps, lease applications/approvals, automated document signing with identity verification (Stripe, TransUnion), maintenance tracking, and payment processing with auto-pay
- Established test-driven development practices, writing 300+ integration and unit tests using Pytest and achieving 90% code coverage on payments and leases, significantly improving deployment confidence
- Reduced expensive Google API usage by over **70%** by implementing clustering, caching, and lazy loading strategies to display apartment listings and points of interest while prioritizing user experience

Vanta   Remote
Software Engineer Intern   *Aug 2023 – Feb 2024*
- Reduced Stream Chat API costs by **$500/month** by building and optimizing a Redis-based real-time chat notification system that tracked 10,000+ daily messages
- Built an atomic transaction system for Stripe payment processing that successfully processed over **1,000** orders
- Maintained 90% code coverage through comprehensive Playwright and RSpec testing suites

Boston College   Chestnut Hill, MA
Research Assistant   *Jan 2023 – Jan 2024*
- Selected from 90+ engineering students to work directly with Professor Maira Samary on a Django REST API and algorithm that reduced TA-Professor matching time by almost 80% for 300+ BC students and faculty

PROJECTS

Kallio - The AI Video Editor
- Building full-stack AI-powered video editor using Next.js, Remotion, Twelve Labs, and OpenAI APIs with authentication via Clerk

Evera Fashion
- Used Ruby on Rails and React to develop a full stack ecommerce website for an independent clothing brand, facilitating over **200** orders using Stripe and UPS APIs

EDUCATION

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