

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

- Designed and shipped numerous Blueprint AI features end-to-end (design → production), implementing complex React/TypeScript UI flows and backend APIs supporting 1M+ blueprint artifacts
- Improved performance by reducing initial load times by 75% (6s → 1.5s) 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 frontend and backend features and component libraries, maintaining high code quality standards
- Replaced client-side polling with WebSocket-based real-time updates for Blueprint AI workflows, reducing API rate limiting incidents and lowering backend request volume by around half
- Designed a central React context to manage AI-generated diffs across the application, enabling highlighting of incremental changes without full re-renders

forREAL

Boston, MA

Software Engineer

Sep 2024 – May 2025

- Architected and built an 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 500+ 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

Evera Fashion

- Used Ruby on Rails and React to develop a full stack ecommerce website for an independent clothing brand, facilitating **70+** orders using Stripe and SendGrid APIs

EDUCATION

Boston College, Morrissey College of Arts & Sciences

Chestnut Hill, MA

Bachelor of Arts in Computer Science

May 2024