

Andy Deng

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SKILLS

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

EXPERIENCE

Pegasystems

Boston, MA

Software Engineer

May 2025 – Present

- Designed and shipped 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 through frontend optimization, backend API refactoring, and caching strategies
- Contributed to Pega's internal React component library, building accessible, reusable components in close collaboration with product design
- Conducted cross-team 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 greatly reducing backend request volume
- Designed a central React context to manage AI-generated diffs across the application, enabling highlighting of incremental changes without full re-renders
- Partnered with product managers and designers to iterate on Blueprint AI features based on user feedback

forREAL

Boston, MA

Software Engineer

Sep 2024 – May 2025

- Built a 0–1 property management platform (Next.js, Django) supporting listings with geospatial search, lease workflows, identity-verified document signing (Stripe, TransUnion), maintenance tracking, and automated payments
- Established test-driven development practices, writing 500+ integration and unit tests using Pytest and achieving high 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
- Implemented idempotent Stripe payment flows with transactional safeguards, processing 1,000+ orders
- Maintained comprehensive Playwright and RSpec test suites to ensure reliability and regression prevention

Boston College

Chestnut Hill, MA

Research Assistant

Jan 2023 – Jan 2024

- Collaborated with Professor Maira Samary to build a Django REST API that reduced TA–Professor matching time from 1 month to a few days for 300+ 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