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*
- Enhanced AI-driven workflow automation for enterprise clients by building full-stack features for Blueprint GenAI including **case lifecycle processes**, **business rules**, and **bug fixes/accessibility improvements**
- Improved internal React component library used by the Pega CRM platform and across 25+ engineering teams, establishing and adhering to React, TypeScript, and Git best practices
- Defined numerous data class structures for Blueprint backend services, establishing scalable data models for GenAI feature integration used by over a million blueprints
- Conducted over **45** code reviews on features, bug fixes, and accessibility improvements across Blueprint and component libraries, ensuring best practices and and adherence to internal coding standards

forREAL   Boston, MA
Software Engineer   *Sep 2024 – May 2025*
- Designed and implemented a comprehensive lease management system that features real-time payment processing with Stripe, document signing and verification flows, and automatic payments
- 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 UX
- Improved code confidence, security, and reliability by advocating for and implementing test driven development and agile methodologies, writing over **300** integration and units tests using Pytest
- Collaborated with a team of 4 engineers to build a scalable and professional end-to-end apartment rental platform utilizing Next.js, TypeScript, Tailwind, Django, Firebase, Azure

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
- Collaborated closely with Ops and Cx teams to introduce several high priority QoL bug fixes and features
- Maintained 90% code coverage through comprehensive Playwright and RSpec testing suites

Boston College   Chestnut Hill, MA
Undergraduate Research Assistant   *Jan 2023 – Jan 2024*
- Reduced course application processing time by **66%** by developing a Django REST API used by 300+ users
- Played a key role in designing an algorithm for TA-Professor matching, completely eliminating complaints
- Automated deployment pipelines using GitHub Actions, integrating over 300 unit and integration tests with Pytest

Boston College   Chestnut Hill, MA
Information Technology Technician   *Aug 2022 – May 2024*
- Resolved over 400 support tickets by quickly diagnosing and addressing technical issues for students and faculty
- Trained junior technicians on routine fixes and troubleshooting procedures

EDUCATION

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