

Andy Deng

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EDUCATION

Boston College, Morrissey College of Arts & Sciences

Bachelor of Arts in Computer Science

GPA: 3.60

Chestnut Hill, MA

May 2024

SKILLS

Languages: Python, JavaScript, Ruby, C, Java, SQL; **Frameworks:** Next.js, Rails, Django, React, Node.js. Swift;

Tools: Git, Docker, Jira; **Databases:** PostgreSQL, Redis, AWS (S3, RDS); **Testing:** RSpec, Playwright, Pytest, Jest

EXPERIENCE

forREAL

Boston, MA

Software Engineer

Oct 2024 – Present

- 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
- Collaborate 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

Evera

Remote

Software Engineer (Contract)

Jul 2024 – Sep 2024

- Built an end-to-end e-commerce platform with React and Rails, implementing secure Stripe payments, automated SendGrid emails, and UPS shipping integration
- Designed scalable components and APIs using SOLID principles, and clean architecture to ensure maintainability and testability
- Implemented comprehensive RSpec and Playwright test coverage for payment and order flows

Vanta

Boston, MA

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 with zero failures
- 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 to handle routine technical issues, improving overall team efficiency

PROJECTS

Who Turned Up the Heat? | *JavaScript, D3.js, Tableau, Vega-lite, Three.js*

- Created an interactive data visualization using D3.js and Tableau, showcasing the impact of greenhouse gasses
- Presented project to 40+ students and faculty, winning best project CSCI3313 Visualization