

ANDY DENG

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EDUCATION

Boston College, *Morrissey College of Arts & Sciences, Chestnut Hill, MA*

Expected May 2024

- *B.A. in Computer Science (GPA: 3.5)*
- *Relevant Coursework:* Algorithms, Data Structures, Object-Oriented Design, Computer Systems, Web Development, Visualization, Software Engineering, Logic & Computation, Randomness & Computation, Computer Networks

TECHNICAL SKILLS

Computer Languages: Python, JavaScript, Ruby, Java, C++; **Tools:** Git, D3.js, Tableau; **Frameworks:** Django, Rails, React.js, Next.js; **Databases:** SQL (MySQL, PostgreSQL), RDS;

WORK EXPERIENCE

Vanta, *Software Engineer Intern, Remote*

August 2023 – Present

- Collaborated on the development of a web application connecting esports teams across schools under the invaluable guidance of three senior engineers
- Enhanced the application by developing real-time chat notifications, implementing Rack Attack middleware for security, and resolving critical bugs
- Ensured transactional integrity by implementing atomic transactions for payment processing, guaranteeing that order processing and payment operations are mutually dependent
- Gained deep insights into best practices, design patterns, and efficient agile and scrum teamwork dynamics while working with a Next.js frontend and a Rails and GraphQL backend
- Contributed to a test-driven team by writing end-to-end and unit test suites with RSpec

Expedia Group, *Software Development Engineer Intern, Austin, TX*

June 2023 – August 2023

- Collaborated with a team of 5 interns to engineer a secure recommendation platform using Java and Spring Boot, focusing on user data protection
- Implemented comprehensive testing strategies including unit and integration tests with Mockito to ensure code correctness and reliability
- Actively engaged in the Agile Scrum development process, contributing to daily standup meetings, and playing a key role in presenting and evaluating low-level design proposals

Boston College IT Services, *Information Technology Consultant, Chestnut Hill, MA*

August 2022 – Present

- Supported network systems and addressed IT issues for clients and colleagues across different operating systems and software applications

PROJECTS

TA-Professor Matching System, *Sponsored Independent Study*, [Link](#)

January 2023 – Present

- Collaborated in a dynamic five-member team to engineer a TA-Professor matching system for Boston College, enhancing the efficiency of TA recruitment for over **300** CS faculty members and students
- Coordinated with faculty and integrated their feedback into system design, implementation, and deployment
- Greatly improved TA recruitment process efficiency, resulting in reduced hiring time and increased satisfaction among faculty and students
- **Technologies Used:** Django, Bootstrap, JavaScript, HTML/CSS, PostgreSQL, Git, AWS (for bi-weekly deliverables), Boston College servers (for deployment)

DNS Server, *Project for Computer Networks (Professor: Charles Wiseman)*, [Link](#)

November 2023 – December 2023

- Developed a Java-based DNS server with capabilities for recursive querying and efficient handling of both local and external DNS requests
- Implemented a DNS caching system, observing TTL protocols, to expedite response times for repeated queries
- Crafted key server components including enhanced DNS record handling and caching, ensuring optimized performance and reliability
- **Technologies Used:** Java Socket Programming, Git, DNS Protocols, dig (for testing)