

# 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

## 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;

## 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 bugs for over **10** major features, impacting over **20,000** users
- Implemented atomic transactions for payment processing, ensuring the secure and error-free completion of over **2,200** orders by guaranteeing that payments and processing are mutually dependent
- Contributed to a test-driven team by writing end-to-end and unit test suites with RSpec, ensuring over **90%** test coverage on over **7,000** lines of code contributed, thereby significantly enhancing code reliability and maintainability
- 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

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

June 2023 – August 2023

- Collaborated with a team of 5 interns to engineer a Java and Spring Boot-based recommendation platform used by over **5.3 million** users
- 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

- Managed and resolved over **1,000** IT support tickets involving a wide range of network systems and software applications across multiple operating systems

## PROJECTS

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

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
- Improved TA recruitment process efficiency by over **70%**, resulting in reduced matching time and increased satisfaction among faculty and students
- **Technologies Used:** Django, Bootstrap, JavaScript, HTML/CSS, PostgreSQL, Git, AWS, Boston College servers (for deployment)

**DNS Server**, *Project for Computer Networks*, [GitHub](#)

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, including a DNS caching system to expedite response times for repeated queries
- **Technologies Used:** Java Socket Programming, Git, DNS Protocols, dig (for testing)