# 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, Operating Systems

## TECHNICAL SKILLS

*Computer Languages:* C, C++, Ruby, Python, Java, JavaScript/TypeScript, Rust, SQL, HTML, CSS, XML
*Tools:* Git, PostgreSQL, NumPy, D3, Tableau, Playwright
*Frameworks*: Django, Rails, React.js, Next.js, GraphQL

## PROFESSIONAL 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
- 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
- Developed a real-time chat notification system that tracks GetStream webhook responses, alerting users to unread messages via on-site notifications and reminder emails
- Contributed to a test-driven team by writing end-to-end and unit test suites with Playwright and RSpec, ensuring over **90%** test coverage on over **7,000** lines of code contributed

**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 **30,000** 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
- Gained deep insights into best practices, design pattern, and software architecture through code reviews and mentorship from experienced engineers

**Computer Science Department**, *Student Developer*, *Chestnut Hill, MA*                    January 2023 – January 2024
- 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 department TA recruitment process efficiency by over **35%**, resulting in reduced matching time and increased satisfaction among faculty and students

**Boston College EagleTech**, *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
- Provided technical assistance to faculty, staff, and students, troubleshooting hardware and software issues

## PROJECTS

**DNS Server**, *Independent Project, 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
- Technologies Used: Java Socket Programming, Git, DNS Protocols, dig (for testing)

**Climate Change Visualization**, *Class Project, Visualization, GitHub*                    October 2022 – November 2022
- Technologies Used: D3.js, VegaLite, Tableau, JavaScript, HTML/CSS, Git