

# Andy Bello

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## EDUCATION

### Boston College, Morrissey College of Arts and Sciences

*Bachelor of Science in Computer Science, Minor in General Business*

Chestnut Hill, MA

May 2027

GPA: 3.92/4.0

- Relevant coursework: Data Structures and Algorithms, Web Development, Machine Learning, Operating Systems

## PROJECTS

### [Mahomebase](#) | Next.js, React, Tailwind CSS, Node.js, Express, PostgreSQL, Redis, Docker | [Source Code](#) Aug. 2025

- Achieved 75% user preference for trade recommendations over similar platforms by utilizing the OpenAI API
- Reduced API response latency by 50% through Redis caching of NFL data to support fast, scalable endpoints
- Built RESTful APIs with Express using rate-limiting on high-traffic endpoints to minimize third-party API costs

### Wine Quality Regression | Python, Scikit-learn, NumPy, Pandas, Matplotlib | [Source Code](#)

Dec. 2025

- Matched public research MSE benchmarks by fine-tuning 4 regression models on 6,497 wine samples
- Designed a cost-sensitive evaluation metric to reflect real-world business consequences of overpredicting quality

### [Heights Housing](#) | React, JavaScript, CSS, Firebase, Firestore | [Source Code](#)

Apr. 2025

- Connected 40+ students to roommates and attracted 300+ users by creating a full-stack roommate-matching app
- Implemented secure BC authentication using Google OAuth in collaboration with BC Residential Life

## Professional Experience

### Finocchiaro Lab, Boston College

Chestnut Hill, MA

Research Assistant

May 2025 - Present

- Co-author on research paper developing novel attribute-based matching algorithm, targeted for April publication
- Validated algorithm correctness through 10+ formal proofs and Python simulations on real-world data examples

### Morrissey College of Arts and Sciences

Chestnut Hill, MA

Undergraduate Teaching Assistant

Aug. 2025 - Present

- Mentored 20 students as the sole TA for Randomness, leading office hours and teaching core probability concepts
- Communicated complex concepts clearly and delivered personalized feedback in coordination with professors

## LEADERSHIP ACTIVITIES

### Boston College Computer Science Society

Chestnut Hill, MA

Executive Board

Oct. 2023 - Present

- Planned and executed BC's annual hackathon, TechTreks, sponsorship, and meetings, engaging 350+ participants
- Secured \$1,100+ in funding for bi-weekly events by communicating with company representatives and BC clubs

### Watertown Boys and Girls Club

Watertown, MA

Volunteer

Oct. 2024 - May 2025

- Tutored 30+ students in algebra, writing, and programming with Scratch, volunteering 10+ hours per week

## SKILLS & INTERESTS

**Languages:** Python, Java, C, JavaScript, SQL, HTML, CSS

**Frameworks & Libraries:** React, Next.js, Tailwind CSS, Node.js, Express, SQL, scikit-learn, PyTorch, NumPy, Pandas

**Databases & Tooling:** Docker, PostgreSQL, Firestore, Redis, Git, REST APIs, Prisma ORM

**Interests:** A.C. Milan, Gjat, ABBA, Shoe Dog, Shutter Island, Boston Sports