Alex De Biasio

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Education

Williams College   **Williamstown, MA**
Bachelor of Arts, Double Major in Mathematics and Computer Science   *Expected May 2028*

- GPA: 3.85/4.00 • Dean's List
- **Teaching Assistant, Abstract Algebra** (Fall 2025): Selected as a sophomore to mentor 30+ students, leading TA hours and grading proofs each week.
- **Stanford Pre-Collegiate Studies**: Completed 4-year university-level online math sequence (SPCS ULO) in high school, covering Abstract Algebra, Real/Complex Analysis, Linear Algebra, and Differential Equations.
- **Relevant Coursework**: Commutative Algebra, Topology, Data Structures & Algorithms;
  Planned for Fall 2025: Computer Organization, Probability, Algebraic Number Theory.

Experience

Russell Research   **East Rutherford, NJ**
Data Engineering Intern   *June 2025 – Present*

- Implementing a data pipeline in C#/.NET as part of modernizing a 20+ year legacy system.
- Developed a comprehensive unit tests using NUnit to validate data transformations.
- Learned and implemented Git best practices, including atomic and conventional commits.

Russell Research   **East Rutherford, NJ**
Machine Learning Engineering Intern   *Summer 2024*

- Developed an ML pipeline in PyTorch to classify over 140,000 survey questions.
- Created a tool using confidence-based sampling to efficiently label a large training dataset.
- Trained and evaluated the performance of 27 different models for the classification task.

Projects & Music

- **Analytical Research: Structural Analysis of Feinberg's Piano Sonata No. 3**
  Investigated the harmonic language and formal structure of a complex 20th-century work under mentorship of SUNY Purchase professor Jenny Undercofler.
- **Collaborative Performance: Ensemble Musician & Accompanist**
  Performed as a collaborative pianist in diverse ensembles (Baroque, Brazilian, Choral), developing ability to actively listen and react to musical cues in real time.

Technical Skills

- **Languages**: Java, Python, C#/.NET, LaTeX
- **Technologies**: Git, PyTorch, NUnit, Visual Studio, IntelliJ IDEA, Obsidian
- **Concepts**: Data Structures, Algorithms, Object-Oriented Programming, Unit Testing

Additional Information

- **Languages**: English (Native), Italian (Fluent)
- **Interests**: Classical & Jazz Piano (15+ years, professional gig experience), Music Composition (piano and FL Studio), Bouldering, Hiking, Tennis