

# DANIEL VESGA

Boston, MA | Tenaflly, NJ | Available: January - August 2026  
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## EDUCATION

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**Northeastern University**, Boston, MA

*Bachelor of Science in Computer Science and Design, GPA: 3.83/4.00*

May 2027

**Relevant Coursework:** AI, Object-Oriented Design, Cybersecurity, Data Science, Algorithms and Data, User Experience Design

**Awards/Scholarships:** National Merit Corporate, NEU Dean's List, Dean's Scholarship, Spanish Seal of Biliteracy (Fluent)

## TECHNICAL SKILLS

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**Languages/Frameworks:** JavaScript, TypeScript, React, Python, Java, PyTorch, Tensorflow, Gymnasium, HTML, CSS, Node, Linux, MongoDB, GraphQL

**Programs:** Adobe Suite (Ps, Ai, Ae, Id, Pr), Figma, Microsoft Azure, Excel, IntelliJ, VS Code, Cursor, Windsurf, Git, Postman

## WORK EXPERIENCE

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**Wayfair, Software Engineer, Physical Retail Tech**

Boston, MA | January - June 2025

- Collaborated within a team of 20 engineers to enhance and test a next-generation Point of Sale (POS) system for Wayfair's physical retail operations.
- Developed a React-based interface enabling store managers to access and reconfigure store metadata via a GraphQL API, while beta testing emerging AI coding tools (Cursor, Windsurf, and Copilot).
- Supported the successful onsite launch of the POS system at Wayfair's flagship Chicago store, assisting with associate onboarding and technical implementation.

**Generate (Student-led Product Development Club), Software Engineer**

Boston, MA | August 2024 - Present

- Selected to join a competitive development team to build a social music review app featuring a relational database for song and album data.
- Collaborated with 15 developers in an agile environment to design and implement a social feed page for a food review platform, integrating engagement metrics to help restaurants track dish popularity.
- Designed user journeys, site architecture, user profiles, and brand identity, and developed a fully functional interactive prototype using Figma.

**Northeastern University Summer UI/UX Design Program, Lead Designer/ Developer**

Boston, MA | March - August 2024

- Designed a ticketing system for Radian, a software startup. Led 5 user interviews with industry engineers and incorporated feedback, ensuring the user interface aligned with end-user needs.
- Created an interface for Boston's Public Transportation system with live train mapping, alerts, and mobile payments.

**DeltaVision, Founder**

Tenaflly, NJ | September 2018 - Present

- Founded a creative enterprise that focuses on personalized phone cases, stickers, and album covers.
- Engaged with clients to ensure their ideas were accurately transformed into tangible, high-quality design products.

## PROJECTS

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**Volunteering Administration Platform**

September 2025 - Present

- Developed a gamified volunteer-event matching platform with React frontend and Python FastAPI backend using MongoDB.
- Engineered recommendation algorithm to suggest local organization events based on interests and availability.
- Integrated reward system enabling volunteers to earn coins through event participation, and redeem prizes.

**Cybersecurity Risk Rating Tool**

August 2025

- Built a Python-based risk assessment tool with interactive forms for evaluating cybersecurity threat likelihood and impact.
- Implemented a risk calculation algorithm to generate quantitative danger scores for identified security vulnerabilities.

**AI Computer Vision Web Application**

November 2024

- Developed a web application for BostonHacks that identifies uploaded images, JSON data, and user-drawn shapes using AI-driven computer vision. Built a Node.js backend integrated with a Microsoft Azure Custom Vision model trained on 90,000 images to deliver accurate, real-time image classification.

**Semantic Search Musician Guessing Game**

November 2024

- Conceived and developed an AI-powered web game in which users guess a secret artist through semantic similarity scoring.
- Implemented vector search functionality with Python backend and MongoDB to query a database of 1,000+ vectorized artists.
- Built TypeScript frontend and populated vector database to enable real-time semantic matching and similarity calculations.