

# Octavio Luis Morales

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## EDUCATION

**Stevens Institute of Technology** | Hoboken, NJ

*Bachelor of Science in Computer Science* | **GPA:** 3.281

May 2025

*Master of Science in Computer Science*

Expected May 2026

**Awards:** Joseph W. Mitro Scholarship, NACME Scholarship, Dean's List, Greek Leader of Distinction

**Relevant Coursework:** Data Structures, Algorithms, Web Programming, Concurrent Programming, Machine Learning, Data Mining, Agile Methods for Software Development, Computer Architecture and Organization, Systems Programming, Mobile Systems and Applications, Object Oriented Designing, Discrete Structures, Linear Algebra

## SKILLS

**Programming:** Java, Python, C, C#, C++, Ruby, JavaScript, Typescript, HTML, CSS, SQL, Rust, React, Scheme

**Tools:** Visual Studio Code, Visual Studio, Unity (2D), Eclipse, IntelliJ, AWS, Oracle Virtualbox, Flutter, Docker, TensorFlow, Flask, WebSockets, MongoDB, PostgreSQL, Redux, macOS, Windows, Linux, Android Studio, Scrum, Jira

## PROJECTS

**CreAIture: AI-Powered Video Chat Filter Application** | Hoboken, NJ

*Stevens Institute of Technology Senior Design Project*

September 2024 - May 2025

- Built an AI-powered application to enhance user engagement by enabling real-time video chat filters that adapt to speech context, thereby streamlining conversations through automated filter selection.
- Directing a team of five in constructing system architecture and middleware with Android Studio, facilitating integration with streaming applications while leveraging open-source filters.

**Game Share: Video Game Discovery and Sharing Platform** | Hoboken, NJ

*Full Stack Based Project*

September 2024 - December 2024

- Developed a web application for sharing and discovering video games, featuring tailored recommendations, advanced search filters, and user-generated content like ratings, comments, and curated lists.
- Implemented technologies including Redis for caching, MongoDB for database management, Firebase Auth for secure authentication, and deployed the platform using Vercel and Docker for scalability and efficiency.

**Bankruptcy Prediction Model** | Hoboken, NJ

*Machine Learning Based Project*

February 2024 - May 2024

- Spearheaded a team of four in creating a machine learning model that achieved 82% accuracy in predicting company bankruptcy, utilizing task coordination, feature selection, securing 2nd place among 14 groups.
- Streamlined 95 bankruptcy indicators down to 31, significantly improving model efficiency and accuracy by identifying the most pertinent data attributes and integrating various predictive models.

## WORK EXPERIENCE

**Point of Sale System Developer** | Bloomfield, NJ

*Freelance*

July 2024 - August 2024

- Enhanced transaction efficiency and user experience by designing a user-friendly point of sale system with Visual Studio, leveraging C# for robust backend functionality, and employing SQL for effective data management to streamline student organization events.
- Elevated system performance by incorporating employer insights and user feedback, driving alignment with project goals and maximizing operational effectiveness throughout the development lifecycle.

## LEADERSHIP EXPERIENCE

**Student Government Association, Stevens Institute of Technology** | Hoboken, NJ

*Senator*

February 2023 - May 2025

- Oversaw and managed budget allocations for over 50 campus organizations using Google Sheets and DuckLink, supporting the needs of all campus organizations while only using 60% of the previous year's funding.
- Expanded support for LatinX organizations by creating and implementing targeted social media campaigns, leading to a 40% increase in visibility, engagement, and participation in various campus events and initiatives.

## ADDITIONAL ACTIVITIES

LatinX Council- President; La Unidad Latina, Lambda Upsilon Lambda Fraternity, Incorporated- Secretary, Treasurer, Academic Chair; Stevens Bowling Team- Vice President; Society of Hispanic Professional Engineers; Order of Omega