**Octavio Luis Morales**

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**EDUCATION**

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

*Bachelor of Science in Computer Science* Expected May 2025

**GPA:** 3.282

**Awards:** Joseph W. Mitro Scholarship, Edwin A. Stevens Scholarship, NACME Scholarship, Dean’s List

**Relevant Coursework:** Data Structures, Algorithms, Web Programming, Concurrent Programming, Machine Learning, Agile Methods for Software Development, Computer Architecture and Organization, Systems Programming, Principles of Computer Programming, Discrete Structures, Linear Algebra

**SKILLS**

**Programming:** Java, Python, C, C#, C++, Groovy, JavaScript, HTML, CSS, SQL, React, Scheme

**Tools:** Visual Studio Code, Visual Studio, Unity (2D), Eclipse, IntelliJ, AWS, Oracle Virtualbox, Flutter, Docker, macOS, Windows, Linux, Canva, Jira, Trello, Scrum

**PROJECTS**

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

*Stevens Institute of Technology Senior Design Project* September 2024 - Present

* Building an AI-powered application using TensorFlow 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 Flask and WebSockets, facilitating integration with streaming applications while leveraging open-source filters.

**Bankruptcy Prediction Model |** Hoboken, NJ

*Machine Learning 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.

**TinyChat: Concurrent Programming Chat Application |** Hoboken, NJ

*Concurrent Programming Project*October 2023 - November 2023

* Implemented actor-based concurrency with Erlang pipelines to enhance message passing and communication, facilitating seamless interactions among clients, servers, and chatrooms.
* Engineered scalable functionalities for chatroom participation, messaging, and nickname management, ensuring responsiveness and minimal latency in a concurrent multi-process environment.

**WORK EXPERIENCE**

**POS System Developer** | Bloomfield, NJ

*Entrepreneur* 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 - Present

* Oversaw and managed the club’s budget allocations 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 increased visibility, engagement, and participation in various campus events and initiatives.

**ADDITIONAL ACTIVITIES**

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