**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

**Software:** Eclipse, IntelliJ, Visual Studio Code, Visual Studio, Unity (2D), Oracle Virtualbox, Trello

**PROJECTS**

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

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

* Enhancing user engagement by developing an AI-driven application with TensorFlow for real-time video chat filters based on speech context, streamlining conversations through automated filter selection.
* Leading a team of 5 to build system architecture and middleware using Flask and WebSockets, ensuring integration with streaming apps like Facebook, Messenger and Twitch while utilizing open-source filters.

**Bankruptcy Prediction Model |** Hoboken, NJ

*Machine Learning Project* February 2024 - May 2024

* Led a team of 4 to develop a machine learning model predicting company bankruptcy with 82% accuracy by coordinating tasks, guiding feature selection, and using ensemble methods, ranking 2nd out of 14 groups.
* Reduced 95 common indicators of bankruptcy to 31, resulting in enhanced model efficiency and accuracy through the selection of the most relevant data attributes and combining multiple predictive models.

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

*Concurrent Programming Project*October 2023 - November 2023

* Developed efficient message passing and communication by implementing actor-based concurrency using Erlang pipelines, enabling seamless interaction between clients, servers, and chatrooms.
* Designed scalable features for joining/leaving chatrooms, messaging, and nickname management, ensuring responsiveness and low-latency in a concurrent multi-process environment.

**WORK EXPERIENCE**

**POS System Developer** | Bloomfield, NJ

*Entrepreneur* July 2024 - August 2024

* Created a point of sale system using Visual Studio to emphasize the user friendliness of the interface, C# to handle the backend, and SQL to manage data to support student organization events and improve transaction efficiency.
* Enhanced system functionality and efficiency by integrating employer recommendations and implementing feedback, ensuring alignment with project requirements throughout the development process.

**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 Operation; 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