

DYLAN SEBASTIAN OSTOLAZA

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EDUCATION

Florida Institute of Technology , Melbourne, FL	August 2024 - May 2027
Bachelor of Science, Major in Computer Science, Minor in Computational Mathematics	
New Jersey Institute of Technology , Newark, NJ	Sept 2022 - May 2024
Bachelor of Science, Major in Computer Science	

PROJECTS

Image Caption Generator Python, TensorFlow/Keras, NumPy, Matplotlib, NLTK	July 2025
<ul style="list-style-type: none">Built an end-to-end deep learning model that generates natural language descriptions for imagesProcessed and tokenized caption data using Keras' Tokenizer, and trained using cross-entropy lossAchieved BLEU-1: 0.51 and BLEU-4: 0.08 scores after training on 6,000 images and 30,000 captions	
Insurance Cost Prediction Python, XGBoost, Pandas, Matplotlib, Scikit-Learn	July 2025
<ul style="list-style-type: none">Predicted insurance costs with XGBoost/Random Forest, reducing MAE by ~44% vs. linear regressionTuned hyperparameters with GridSearchCV (135 fits) to improve XGBoost accuracy and reduce MAE	
Olympic Athlete Data Analysis Python, Jupyter	June 2025
<ul style="list-style-type: none">Analyzed Olympic athlete data spanning 100+ years using Pandas, NumPy, Matplotlib, Seaborn and JupyterMerged and cleaned datasets to analyze trends in athlete age, gender participation, and medal distributionVisualized the correlation between Olympic athletes' height and weight using scatter plots	
CRM Application Python, Django, MySQL	February 2025
<ul style="list-style-type: none">Developed a full-stack CRM application enabling users to register, log in, and manage customer recordsReduced unauthorized access by 45% by implementing role-based access control and session management	
Swim Time Calculator Java	December 2024
<ul style="list-style-type: none">Designed a Java-based calculator with customizable event distances, and strokes that computes race splitsDeveloped an interactive GUI for the calculator using Java, featuring buttons, dropdown menus, and images	
Personal Portfolio HTML, CSS, JavaScript	December 2024
<ul style="list-style-type: none">Deployed the site using GitHub Pages via git.io, achieving load times under 100ms globallyImplemented custom domain configuration and optimized DNS settings for improved website accessibility	

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Division I Swimming	Fall 2022 - Present
<ul style="list-style-type: none">2x CSCAA National Invitation Championship Qualifier & 2x School Record HolderVarsity Scholarship with a commitment of 20 hours per weekSunshine State Conference Commissioner's Honor Roll	
President of Computing Honors Society (Upsilon Pi Epsilon)	Fall 2025 - Present
<ul style="list-style-type: none">Schedule and facilitate monthly meetings with interactive computer science related activitiesVolunteer one hour per week at the CS Help Desk, assisting students with coursework and debugging	
Artificial Intelligence Club	Spring 2025 - Present
<ul style="list-style-type: none">Collaborated with peers on AI projects involving machine learning, computer vision, and deep learningAttended weekly meetings to discuss AI advancements, share project progress, and plan club initiatives	

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, Java, C++

Libraries & Frameworks: Pandas, NumPy, Matplotlib, Seaborn, XGBoost, Scikit-Learn, Django, TensorFlow, NLTK

Developer Tools: Git, VS Code, Jupyter

Time Management: Able to balance training schedule with academic responsibilities

Interests: Fishing, American Currency Collecting, International Cuisine, Music, Board games / Strategy games