

William Espitia

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EDUCATION

Farmingdale State College

Farmingdale, New York

BS in Computer Science

May 2025

- **Senior Project:** Designed full stack social movie review platform using HTML, CSS, JavaScript and Firebase, while utilizing TMDB API to fetch and display movie metadata for a unique user experience.
- **Related Coursework:** Data Structures & Algorithms, Data Management, Computer Programming, Computer Architecture and Organization, Software Engineering.

BS in Mechanical Engineering

December 2021

- **Senior Project:** Designed automation system with Richlin Machinery, Inc. where two halves of a container are sorted, flipped, filled, and dispersed for packaging.
- **Related Coursework:** Computer Aided Drafting & Design, Manufacturing Processes, Tool Design, Applied Thermodynamics, Machine Product & Design, Robotics, Applied Fluid Mechanics, HVAC Systems.

SKILLS

Programming & Scripting: Java, Python, JavaScript, HTML, CSS, SQL, MATLAB

Frameworks & Libraries: Flask, Pandas, Scikit-Learn, JavaFX, Scene Builder, REST API

Developer Tools: Git, GitHub, IntelliJ IDEA, Eclipse, NetBeans, Visual Studio, Firestore, Microsoft SQL Server

Engineering: CATIA, AutoCAD, Inventor, SolidWorks, MasterCam, Multisim, MS Word, Excel, PowerPoint

PROJECTS

Plot Twist | [Website](#) | [Source Code](#)

HTML | CSS | JavaScript | Firestore

- Developed a **responsive, full-stack social movie review platform** supporting **20+ active users** with real-time review creation, editing, and social interactions.
- Integrated **Firestore Authentication** and **cloud-hosted Firestore NoSQL database** to manage user sessions, review persistence, and social features (followers, blocked users, favorites) with **real-time synchronization**.
- Consumed **RESTful TMDB API** to dynamically retrieve and display data for **500+ movies**, including metadata, posters, and banners, with **interactive UI/UX components** such as star ratings and editable review modals.

Courtside Predictor | [Source Code](#)

Python | Flask | Scikit-Learn | HTML | CSS | JavaScript

- Built a **Flask web app** analyzing **300+ NBA games (2023–2025)** using **Python, Pandas, and nba_api**, enabling users to explore team/player stats and historical performance trends.
- Trained and deployed **logistic regression models** with **scikit-learn** to predict **2025–26 season team win probabilities** and **player over/under performance probabilities**, achieving **74.65% historical accuracy**.
- Designed a responsive **HTML/CSS/JavaScript interface** with Flask routing for smooth navigation between stats, predictions, and insights.

WORK EXPERIENCE

ESCO Maritime Solutions

Yaphank, New York

Heavy Magnetics Assembler

August 2022 – Present

- Conducting the assembly, disassembly and rework of various transformers based on the needs of the customer.
- Heavy soldering in splicing wires together, testing the transformers for turns ratio and inductance, connecting wires to terminal block in final assembly and keeping a track record of the work that is being done/completed.
- Reading mechanical drawings/parts list in order to appropriately conduct the assembly required, as well as performing other duties and/or learning new product assemblies as requested or directed.

Air Industries Group

Bay Shore, New York

Assembly Mechanic

October 2019 – June 2022

- Conducted the assembly, disassembly and rework on the Mixer and Engine Quadrant for the Sikorsky UH-60 Black Hawk Aircraft, including work with various electrical wiring, installation of bushings, bearings, rivets, sealant, sensors and links, soldering wires and reading mechanical drawings for assembly.
- Worked alongside Quality Control to meet their desired requirements, assisted in any projects or parts that needed to be done in a timely manner and conducted some stock room work when needed.