

# Sebastian Lopez

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## EDUCATION

### Florida Polytechnic University

Lakeland, FL

May. 2024, B.S. Computer Science - Advanced Topics

GPA: 3.00

- Data Structures, Algorithms, OOP, ML, AI, Testing, Deployment, Computer Vision, and the SDLC.

## EXPERIENCE

### ICONIC Lkld

Lakeland, FL

Developer (Contractor)

Sep. 2023

- Demonstrated customer service when helping customers identify products they wanted and informed customers of options they had.
- Demonstrated verbal and written communication skills.
- Created a sophisticated Twitter bot using Python that automates tweets for a local wellness business leveraging modern technology and languages.
- Utilized OpenAI's ChatGPT to generate Twitter posts from a list of quantitative Python ideas, following a specific template.
- Developed and tested OpenAI prompt templates using Jupyter Notebooks.
- Scheduled tweets to be posted every 12 hours using the apscheduler module in Python; implemented posting functionality with Tweepy for seamless Twitter integration.
- Configured scripts to run as operating system services, allowing command-line control of the Twitter bot on a remote server. Enabled the ability to check the status, stop, or start the Twitter bot service from the command line; maintained and monitored logs generated by the Twitter bot for troubleshooting and performance analysis.
- For a few months, I worked as a customer service representative for the company as well in which I helped customers identify and find the products they were looking for, with great interpersonal skills and professionalism.

## RELATED EXPERIENCE

### Lockheed Martin Intern

Orlando, FL

Senior CAPSTONE

2023-2024

- Used sophisticated ML techniques such as time series analysis (ARIMA, LSTM), supervised learning (gradient boosting, random forest), and deep learning (neural network).
- Collaborated with a large team of multi-disciplinary teammates (engineers and economics students) to develop an optimizer and forecaster for modeling future energy prices.
- Utilized Python, MATLAB, and Tableau to analyze, visualize, and predict data.
- Facilitated effective teamwork and coordination between different groups, ensuring smooth project progression.
- Authored detailed reports and documentation, contributing to the project's clarity and success.
- Served as the primary communication liaison with the head of the department of Missiles and Fire Control we were working with, ensuring transparent and timely updates on project milestones.
- Leveraged sophisticated ML techniques, including pipelining, preprocessing, and creating training sets to compare performance using RMSE.

## PROJECTS

### Me2U (Personal Project)

Aug. 2023 – present

Full Stack Developer

- Developed a full-stack web chat application using the MERN stack (MongoDB, Express.js, React, Node.js) with integrated Socket.io for real-time messaging.
- Implemented secure authentication and authorization mechanisms using JSON Web Tokens (JWT) to ensure user data protection.
- Designed and managed online user status with React Context and Socket.io, enabling real-time updates and presence detection.

- Utilized Zustand for global state management, facilitating efficient state sharing across the React application.
- Incorporated TailwindCSS and Daisy UI for a modern, responsive, and visually appealing user interface.
- Implemented comprehensive error handling on both client and server sides to enhance application reliability and user experience.
- Deployed the application using best practices, ensuring a professional and cost-effective deployment solution.
- Leveraged Postman for API testing and development, ensuring robust and reliable backend functionality.

## **Recommendia (Personal Project)**

Dec. 2023 – present

*Full Stack Developer/Tool*

- Developed a recommendation system for both movies and books leveraging ChatGPT tokens and a large dataset of movies and books, enhancing user experience by providing personalized recommendations.
- Utilized Python and Jupyter Notebooks (.ipynb) for data processing, analysis, and model training, ensuring efficient handling of large datasets.
- Implemented a responsive and user-friendly front-end using Streamlit, allowing users to input a movie or book and receive recommendations for similar items.
- Integrated back-end logic with front-end components to seamlessly deliver real-time results based on user input.
- Conducted thorough testing and validation to ensure the accuracy and relevance of recommendations, improving overall user satisfaction.
- Documented the entire project lifecycle, including data preparation, model development, and deployment, to facilitate future enhancements and maintenance.

## **WriteThatDown (Personal Project)**

Feb. 2024 – present

*Full Stack Developer*

- Developed an intermediate-level full stack application using Django for the back-end and React for the front-end, ensuring a seamless user interface and experience when creating and editing notes.
- Implemented JWT (JSON Web Tokens) for secure authentication, enhancing the application's security measures.
- Designed and integrated RESTful APIs for efficient communication between the front-end and back-end, ensuring robust and scalable architecture.
- Created custom forms to enhance user interaction and improve the user experience within the application.
- Documented the project, including design decisions, implementation details, and deployment steps, to facilitate maintenance and future development.

## **SKILLS**

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- Programming Languages: Python, Javascript/Typescript, SQL, C++, C, FIGMA
- Frontend Development: HTML, CSS, React.js, Redux.js, Angular, Next.js.
- Backend Development: Node.js, Express.js, DynamoDB, S3, Firebase, MongoDB.
- Python Frameworks: scikit-learn, Keras, OpenCV.
- Non-Technical: Strong interpersonal skills, customer service, multitasking, ability to work under pressure, bilingual (fluent in both Spanish and English), 60 WPM Typing.