

# Thomas Ermias

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## TECHNICAL SUMMARY

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- Computer Science student with hands-on experience in machine learning, cloud deployments, and legacy system integration.
- Proficient in Python, Java, and COBOL with a strong focus on optimizing processes, demonstrated by increasing program efficiency up to 38% across multiple projects.

## EDUCATION

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### University of North Florida

*Bachelor of Science in Computer Science, Minor in Mathematics*

Jacksonville, FL

*GPA: 3.9, Expected Dec 2025*

## PROJECT EXPERIENCE

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### AeroAtlas Travel Itinerary Generator

*Project Manager, Lead Architect, Full-Stack Developer*

University Capstone Project

*Jan 2025 – Present*

- Leading a team of 5 in developing and testing a dynamic travel-planning web app using user input to personalize itineraries; project still under development.
- Oversaw ticket assignment, sprint scheduling, and integration checks to maintain sprint velocity and code quality.
- Software competed against 48 other teams, won the Audience Choice Award, and received overwhelmingly positive feedback from early users.
- Consulted with over 50 potential users, showcasing the software and collecting feedback to optimize features during demo day; planning rollout in Q4 2025.
- **Technologies Used:** TypeScript, Next.js, Tailwind CSS, Python, FastAPI, Supabase, OpenStreet map API, Cesium API, Cross-Origin Resource Sharing (CORS).

### ML Linear Regression Stock Prediction Webapp

*Full-Stack Developer*

GitHub / Heroku Deployment

*Mar 2025 – May 2025*

- Developed a web app that converts company names to stock tickers, fetches 2 years of historical data, and applies a Python-based linear regression model to predict next-day prices.
- Deployed backend on a 5-dyno Heroku setup, supporting 160 daily user requests with an average response time under 1.5 seconds.
- Achieved a mean absolute error (MAE) of approximately 28% on test data, integrating insider trading data for top-5 recent transaction insights.
- **Technologies Used:** Python, FastAPI, Scikit-learn, yfinance, React, Next.js, TypeScript, Tailwind-css, Heroku.

### Movie Recommendation Engine

*Full-Stack Developer*

GitHub, Jacksonville, FL

*Jul 2024 – Jan 2025*

- Designed and deployed a full-stack recommendation application, combining Flask for the backend and HTML/CSS/JavaScript for a responsive frontend.
- Implemented a hybrid recommendation algorithm (Euclidean distance and popularity), improving relevance by 30%.
- Normalized and cleaned the movie database, enhancing query performance and data integrity across 4,500+ entries.
- Integrated the OMDb API to dynamically fetch and display movie posters, reducing missing data points by 95%.
- Deployed on Railway, achieving 1,010 impressions and reaching 453 users in the first month.
- **Technologies Used:** Python, Flask, MySQL, Pandas, HTML/CSS, JavaScript, OMDb API, Git, Railway.

## SKILLS & INTERESTS

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- **Programming Languages:** Python, Java, C, COBOL
- **Frameworks/Tools:** Flask, FastAPI, JCL, MySQL, Git, Docker, Render, Heroku
- **Technical Skills:** Object-Oriented Programming, Data Structures, API Development, Cloud Deployment
- **Soft Skills:** Problem-Solving, Communication, Time Management