

Stewart Almeida

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Available: Jan 2026 – Aug 2026 | GitHub: <https://github.com/salmeida1993>

EDUCATION

Northeastern University – Boston Campus, Boston, MA

MS in Computer Science Candidate, GPA: 3.9 / 4.0

Relevant Coursework: Computer Systems, Algorithms, Object-Oriented Design, Discrete Structures

Sep 2024 – Present

Expected Graduation: Dec 2026

Air Force Institute of Technology, Dayton, OH

MS in Atmospheric Science, GPA: 3.7 / 4.0

Relevant Coursework: Applied Probability & Statistical Analysis, Thesis Research

Aug 2019 – Mar 2021

TECHNICAL KNOWLEDGE

Languages: Python, Java, C

Tools & Frameworks: Git

PROJECTS

Data Driven Game Engine

Northeastern University

Mar 2025 – Apr 2025

- Designed a data driven game engine in Java as part of a team of 4 with multiple classes (e.g., Player, Puzzles, Inventory, Monsters...etc.), as well as a GUI with the Model-View-Controller architecture.
- Wrote JUnit tests for each class to test each functionality.
- Crafted scenario specific sequence diagrams and aided in the design of object and class diagrams for initial analysis and higher-level conceptual design process.

Memory Match Card Game

Northeastern University

Nov 2024 – Dec 2024

- Designed a memory match card game using Python Turtle Graphics, handling on screen clicks, proper card play mechanics, and differing end states based on player actions.
- Developed a leader board system to save previous player scores in a separate .txt file, sorting and outputting top saved player scores.

Thesis: Identifying Four Year Average Cloud Field Regimes From World Wide

Merged Cloud Analysis Dataset By Way of K-Means Clustering

Air Force Institute of Technology

Apr 2020 – Mar 2021

- Performed first machine learning process on World-Wide Merged Cloud Analysis dataset, creating over 1K lines of code in Python towards \$2M Center for Technical Intelligence Studies and Research cloud project.
- Interrogated global weather dataset, sorting and implementing statistical analysis over 34K netCDF files for the continued development of cloud layer integration within the AFIT Sensor and Scene Emulation Tool.

WORK EXPERIENCE

25th Operational Weather Squadron, Tucson, AZ

Operations Officer

Mar 2021 – Aug 2024

- Charged with leading a 30 member team, scheduling teams of supervisors and forecasters and resolving administrative/personnel issues, enabling 24/7 weather operations support across two continents.
- Initiated standardization of junior weather officer's training upgrade process, coordinating accession requirements across 6 large units and implementing best practices for initial career progression.
- Developed and implemented a new operations certifications overview, reducing the number of positional certifications from 10 to 4 and cutting down yearly administrative paperwork by 80%.
- Maintained oversight of \$1.5M in tactical meteorological sensor equipment, ensuring 100% compliance in maintenance needs and deployability supporting global contingent missions sets.

17th Operational Weather Squadron, Honolulu, HI

Section Leader

Oct 2016 – Aug 2019

- Led a 17 member team in providing 24/7 weather support across a 113M square mile area of responsibility supporting over 250K personnel and 1.8K aircraft.
- Helmed unit safety program as head representative, utilizing enterprise wide online tracking system to restore unit workplace safety compliance back to 100%