Andy Dam

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Education

The University of Texas at Dallas — Richardson, TX
Master of Science in Computer Science — *May 2027*
Bachelor of Science in Computer Science — *May 2026*
Dean's List, All Semesters (3) — GPA: 4.00
Relevant Coursework: *Operating Systems, Data Structures, Advanced Algorithms, Computer Architecture, Quantum Computing, UNIX Systems Programming, Digital Logic, Programming Language Paradigms*

Technical Skills

Languages: Python, Java, C/C++, JavaScript/TypeScript, HTML/CSS, SQL
Frameworks/Libraries: React.js, Flutter, Flask, pandas, NumPy, Matplotlib, Seaborn, scikit-learn
Developer Tools: Git, VS Code, IntelliJ, VIM, Jupyter Notebook

Experience

Software Development Intern — May 2025 – Present
Paycom — *Irving, TX*

Projects

FindMyFlight | *React, TypeScript Node.js, Firebase, Express, Jest* — Feb 2025 – May 2025

- Created a flight information website that queries current flights based on a given origin airport, destination airport, and departure date
- Converted output HTML code from Figma into React components and added functionality to fields and pages
- Utilized external Google Flights API for flight data while using an Express server to make API calls
- Parsed API JSON output into readable flight entries through reusable React components
- Used Jest to implement use-case-based test cases by simulating button clicks and filling input fields

Song Mood Classifier | *Python, Pandas, scikit-learn, Flask, HTML, CSS* — Aug 2024 – Sep 2024

- Trained a Random Forest model on 278k pre-labeled songs to classify songs based on happy, sad, calm, or exciting moods
- Improved accuracy to 92% by optimizing and testing different classification models and parameters provided by scikit-learn
- Built an interactive front-end interface with Flask for users to query their own songs

Movie Theater Reservation System | *C++* — Nov 2023 – Dec 2023

- Programmed a CLI program, providing the user with an input interface
- Implemented the Linked List data structure to record each seat in the movie theater in a 2D grid
- Utilized the HashMap data structure to simulate user authentication

Redbox Inventory System | *C++* — Sep 2023 – Oct 2023

- Created a program simulating a Redbox machine with rent, return, add, or remove capabilities
- Implemented the Binary Search Tree data structure to keep record of each DVD alphabetically
- Designed the Binary Search Tree to be templated to allow for any data type to be compatible

Organizations

Association for Machine Computing — Aug 2023 – Present
Association for Machine Computing Education | *Mentee* — Aug 2023 – May 2024

- Explored web/mobile development concepts through Udemy
- Worked with a mentor that guided me through internship applications and professional development
- Connected with other mentees and mentors to get a head start in developing professional connections