

ANTHONY LAM

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EDUCATION

University of Pennsylvania

August 2023 - May-2025

Masters Computer & Information Technology (Computer Science)

Overall GPA: 3.59

University of Texas at Dallas

August 2018 - Dec-2021

Bachelor of Arts in Mathematics

Overall GPA: 3.47

PROJECTS

Interactive Pokémon Map Simulator

June 2024

- Engineered and deployed a responsive web application using Angular and Java Spring Boot, simulating location-based Pokémon encounters to enhance user interaction and game-like experience.
- Implemented real-time state management and dynamic content rendering, enabling users to customize encounters based on criteria such as location and encounter method.
- Integrated PokeAPI for comprehensive Pokémon metadata, optimizing data retrieval through efficient caching strategies to improve application performance.

Video Game Price Tracker

March 2024

- Developed a full-stack web application for tracking video game prices across multiple platforms, utilizing Spring Boot for the backend and a Python web scraper for data collection.
- Implemented an automated data refresh system, allowing users to update game prices on-demand through a RESTful API endpoint, ensuring up-to-date market information.
- Designed a scalable database schema using PostgreSQL to efficiently store and manage data for hundreds of Pokémon games, including pricing information for various conditions (new, used, complete-in-box).

Spring Boot Baseball Players Directory Application

January 2024

- Developed a web-based application for managing a directory of baseball players using Spring Boot, and implemented extensive unit testing using Mockito,
- Implemented RESTful services and Thymeleaf templates to create a dynamic and interactive user interface for adding, updating, deleting, and searching for player information.

TECHNICAL STRENGTHS

Computer Languages	Java, Python, C
Web Technologies	HTML, CSS, JavaScript, Git
Frameworks	Springboot, Angular
Databases	PostgreSQL
Other	Docker, AWS, Junit, Mockito

EXPERIENCE

Richardson ISD

August 2021 - August 2023

Secondary Mathematics Teacher / Student Teacher

Richardson, TX

- Demonstrated quick, on-the-fly problem-solving under high-stress classroom situations
- Proficient in analyzing student performance data to tailor teaching strategies, paralleling the use of data analysis in software engineering to drive decision-making.