

# Alex Thomas

[alexthomas03@gmail.com](mailto:alexthomas03@gmail.com) | 646-763-5639 | [GitHub](#) | [LinkedIn](#) | Dallas, TX

---

## Education

**The University of Texas at Dallas – Richardson, TX**

**May 2024**

*B.S. in Computer Science*

GPA: 3.5+

*Comet Transfer Scholarship*

---

## Technical Skills

**Languages** – Python / Java / HTML/CSS / JavaScript / C++ / SQL

**Frameworks/Libraries** – TensorFlow / Keras / Numpy / NLTK / Flask / React / OOP / Agile / Shell / Git / Jupyter

**Relevant Coursework** – Data Structures and Algorithms / Artificial Intelligence / Software Project Management / Machine Learning / Database Systems

---

## Experience

**theCoderSchool – Frisco, TX**

**July 2019 – Present**

*Instructor*

- Delivered tailored programming lessons to students aged 6-20+ in languages like Python, Java, C++, C# etc., adjusting to diverse learning needs and creating comprehensive review notes.
  - Maintained regular communication with clients on progress, achievements, and areas for improvement.
  - Collaborated with team on Slack to enhance lesson plans and discuss potential marketing moves.
  - Led specialized summer camps in Python, Roblox development, and Robotics with typically 8-20 students at a time.
  - Curated a portfolio of instructional projects to support fellow instructors and enrich student learning experiences.
- 

## Projects

**Image Classifier** – Python / TensorFlow / Keras / Numpy

*Image classification model that identifies whether a given image conveys happy or sad.*

- Developed a CNN using TensorFlow and Keras for image categorization and processed image data with OpenCV.
- Assessed model efficiency using key metrics like precision and visualized performance trends for analysis.
- Introduced an image sentiment utility with features for efficient data storage and retrieval.

**Chat Bot** – Python / NLTK / TensorFlow / Keras

*Language model that understands user questions and provides context-aware responses based on training data.*

- Created an NLP-driven chatbot for user query comprehension and context-aware conversations using Keras.
- Organized training data using JSON and leveraged Pickle for streamlined data serialization and storage.

**Personal Website** – HTML/CSS/JS / React

- Developed a React portfolio highlighting professional skills and projects.
- Leveraged React hooks for site navigation and integrated EmailJS for backend-free email communication.
- Designed for scalability, ensuring easy updates and continuous user engagement.

**Space Shooter** – Python / Pygame / OOP

- Created player, enemies, and projectiles utilizing object-oriented programming and advanced collision detection.
- Implemented a modular sprite system for smooth game animations and enhanced gameplay with dynamic enemy movements.