

# Alex Thomas

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## EDUCATION

### The University of Texas at Dallas

*B.S. in Computer Science*

May 2024

*Richardson, TX*

**GPA: 3.5+**

*Comet Transfer Scholarship*

## TECHNICAL SKILLS

**Languages:** Python | Java | HTML/CSS | JavaScript | C++ | SQL | C#

**Frameworks:** Tensorflow | Keras | React | Node.js | Flask | PyTorch | Unity

**Libraries:** NumPy | NLTK | Matplotlib | OpenCV | Pickle | Beautiful Soup

**Developer Tools:** Git | VS Code | Jupyter | MySQL | Agile | npm | pip

## EXPERIENCE

### Instructor

July 2019 – Present

*theCodersSchool*

*Frisco, TX*

- 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
- Curated a portfolio of instructional projects to support fellow instructors and enrich student learning experiences.

## PROJECTS

### Image Classifier | *Python* | *TensorFlow* | *Keras* | *OpenCV* | *Numpy*

- Developed a CNN with 95% accuracy using TensorFlow and Keras for categorizing images based on emotion.
- Employed OpenCV for image processing.
- Monitored model performance through precision metrics and visualized analytical trends to enhance efficiency.
- Engineered an image sentiment utility to optimize data storage and retrieval processes.

### Chat Bot | *Python* | *NLTK* | *TensorFlow* | *Keras*

- Crafted an NLP-driven chatbot capable of understanding and facilitating context-aware user interactions.
- Leveraged precision metrics to evaluate and iteratively improve model performance.
- Structured training datasets using JSON and integrated Pickle for swift data serialization and storage.

### Personal Website | *HTML* | *CSS* | *JS* | *React*

- Designed a dynamic React-based portfolio, highlighting professional skills and past projects.
- Harnessed React hooks for streamlined site navigation and integrated EmailJS for backend-free contact.
- Emphasized scalability in design, facilitating hassle-free content updates and ensuring sustained user engagement.

### Space Shooter Game | *Python* | *Pygame* | *OOP*

- Developed a game utilizing OOP principles to feature players, enemies, and projectiles.
- Implemented a modular sprite system to ensure fluid game animations.
- Elevated user experience by introducing dynamic enemy movements and incorporating advanced collision detection.

## EXTRACURRICULARS

### NüVü

September 2022

*HackDFW*

*Dallas, TX*

- Collaborated on "NüVü", an AR-based vehicle shopping experience, utilizing ARCore, Unity's Universal Render Pipeline, and Android NDK.
- Overcame challenges in asset acquisition, project evolution, and hardware limitations to successfully create a demo within a limited timeframe.
- Participated in professional development workshops held by industry leaders, including Google, CarMax, and Lockheed Martin.