

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 | Firebase | 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 React-based portfolio, highlighting professional skills and past projects, deployed with Firebase.
- 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.