Joshua Gao

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EDUCATION

B.S. Cognitive Science: Artificial Intelligence Focus; Entrepreneurship Minor   **GPA 3.7**

The University of Texas at Dallas: Cum Laude, Academic Excellence Scholarship   May 2021

PROFESSIONAL EXPERIENCE

Sharp Vision Software - AI Specialist   May 2021 – Present

- Leveraged pose estimation models to implement AR tracking of human body parts within Unity for medical mobile applications designed to assist military medical personnel in the field
- Utilized image processing techniques and other algorithms such as skeletonization, image segmentation, K-NN, edge detection, Otsu's thresholding, morphological operations, and other algorithms to build a AR tracking of medical manikin legs
- Created multiple NLP conversational chatbots acting as medical patients to better enable DOD military instructors to teach medical best practices
- Simulated bodily processes including heart rate, respiratory rate, pulse oximetry, and other important vitals by using CAE's manikins to create more realistic scenarios such as tension pneumothorax and stroke for military medical students

Zions Bancorporation - TREO IT Intern   Jun 2020 – Aug 2020

- Led a research initiative to identify the ideal network monitoring tool to be used for the company's IT infrastructure in order to consolidate the many existing tools into a single pane of glass
- Worked with multiple IT teams to organize job scheduling, initialize servers, and patch cybersecurity vulnerabilities

Motor King International - Business Development Intern   Jun 2018 – Aug 2018

- Conducted in person market research to analyze the socioeconomic demographic of customers
- Organized meetings between the Burkina Faso Ambassador and Motor King International executives

LEADERSHIP EXPERIENCE

UTD Fusion - Founder and President   Mar 2017 – May 2021

- Created a diverse charity acapella group that raises money through our own shows to donate to various charities and causes
- Managed all social media accounts, leading to an attendance of over 50 people at our debut performance where all the proceeds were donated to UNICEF

UTD Kung Fu Club - President   Jun 2018 – Jul 2021

- Communicated with UTD Club Sports Director and affiliated institutions on club needs and persuaded them to commit over $1000 every year with an annual budget proposal
- Boosted club membership rates by 100% by revamping the marketing strategy and restructuring the officer team to run more efficiently

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C#, Java, C++, HTML, CSS, SQL
- **Relevant Libraries:** Pytorch, OpenCV, Matplotlib, Pandas, Numpy, Scikit-learn
- **Tools:** Unity, Git, TensorFlow, Dialogflow, Rasa, Google Cloud Platform, Firebase, VirtualBox, NodeJS, MongoDB, React, React-Native, Expo, Raspberry Pi, Figma, Paperspace