Jason Whitlow

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EDUCATION

B.S. Computer Science — 12/2024
California State University, Fresno
Courses: Software Engineering, Cybersecurity, Network Systems, Biometric Security, Database Design

A.S. Electrical Engineering — 05/2022
Reedley College
Courses: Circuits, Statics, Materials Science, Physics

EXPERIENCE

Research Assistant — 02/2023 – 05/2023
California State University, Fresno
- Collected and stored over 50 million datapoints of publicly available spatial data by making REST API requests and saving the information in a remote SQL database
- Assisted with labeling a machine learning dataset of over 7000 images to train a model to identify contaminated objects within recyclable materials
- Configured a secure connection to a remote SQL database using a peer-to-peer virtual private network

PROJECTS

Analysis of Google Facenet, Facebook Deepface, and ArcFace among varying demographics — 01/2024 – 05/2024
- Investigated the performance of four facial recognition models across four racial categories: African, Caucasian, Asian, and Indian
- Executed over 200,000 tests on a dataset of 12,000 individuals and 50,000 images to unveil biases inherent in the models
- Conducted model optimization through statistical analysis metrics including accuracy, F1 score, precision, specificity, and recall
- Engaged with over 10 research papers to inform methodology and analysis
- Identified significant racial bias in both Caucasian and African classes

Meet in the Middle — 08/2023 – 12/2023
- Dynamically analyzes the geographic coordinates of users and strategically identifies an optimal location based on various factors
- Notifies users of incoming friend requests and event invitations, ensuring timely and efficient communication within the application
- Collaborated with a team of 3 developers
- Languages and Technologies: NextJS, MongoDB Atlas, AWS Amplify, and Google Places API

Network Application: Tic Tac Toe — 09/2023 – 12/2023
- Supports multiplayer tic tac toe over a network through P2P and Client-Server architectures
- Employs unistd.h library for managing transport layer sockets and SFML for the GUI
- Collaborated with a team of 3 other developers
- Languages and Technologies: C/C++

CERTIFICATES

CSUF Cybersecurity Certificate: 72-weeks of instruction on Cryptography, Biometric Authentication, Networking Protocols, Cyber Attacks and Countermeasures

SKILLS

Languages
C++, JavaScript, Python, Assembly x86, SQL

Technologies
NodeJS, MongoDB, Google Places API, MySQL