Nicole Ly

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Education

University of California, Irvine   Expected Graduation: June 2026

Bachelor of Science in Computer Science
- GPA 3.6/4.0
- Relevant Coursework: Python for Data Science and Machine Learning, Boolean Logic and Discrete Structures, Methods of Discrete Math

Skills

Languages: Python, C++, HTML, CSS, Bootstrap
Libraries: TensorFlow, Numpys, Pandas, Keras

Projects

Personal Site
Languages and Tools utilized: HTML, CSS, Bootstrap, JavaScript

Text-To-Speech
Languages and Tools utilized: Python, Google's Text-to-Speech API, MongoDB
- Developed a scalable web scraping and text-to-speech automation script using Google's Text-to-Speech API, Python's lmxl library and multiprocessing to better utilize the hardware
- Designed and implemented a MongoDB database system to efficiently store both raw text data and generated MP3 files for easy retrieval
- Successfully extracted lecture notes from my professor's website and converted them into MP3 files for later listening, streamlining my study process

Procrastination Chatbot
Languages and Tools utilized: Python, Tensorflow, Keras, Numpy
- Developed a chatbot leveraging LSTM networks, Tensorflow, and NLP techniques such as tokenization to assist students in tackling procrastination
- Preprocessed a dataset from Reddit discussions and posts within student procrastination-related subreddits
- Trained a neural network on this dataset to understand user inputs and generate appropriate responses based on conversation tags

Work Experience

iFocus Learning Center   August 2021 - September 2022; July 2023 - September 2023

Tutor
- Coordinated and instructed a classroom of 12+ students daily in various subjects including Math, English, and writing
- Applied problem solving, time management and leadership skills to ensure that students have their homework graded and classwork prepared by the time they come to class

Additional

Journalist for Show Me A Healthy State - Conducted and arranged meetings with a team of journalists to advocate against healthcare disparities, 2023

Participant in UCI Web Reg Hackathon - Designed and prototyped a reworked school registration website using Figma based on surveyed data from other UCI students