

Huasheng Ye

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EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

Bachelor of Science in Electrical Engineering

September 2015 - June 2019

- Relevant Coursework: Computer Vision, Multimedia Systems, Hardware/Software Interface, Game theory, Problem Solving with Computers (C++)

PROFESSIONAL EXPERIENCE

Wellspring Consulting Group

San Jose, CA

Quantitative Analyst

Nov 2019 – Aug 2020

- Perform backtesting to build and analyze investment portfolios based on different strategies by Python and Pandas.
- Use Pandas and Matplotlib to visualize data and analyze risk and return of investment.
- Based on clients' financial objectives and risk preferences, improve the investment models and present results to clients.

PROJECT EXPERIENCE

Build REST APIs with Flask and Python

- Created a REST APIs using Python, Flask for seller management system
- Performed User Registration, Authentication, Logging In, Token Refresh, Blacklisting in REST API to help sellers securely manage their store and items.
- Used Flask-SQLAlchemy to store and retrieve data from a database
- Deployed the REST API on Heroku Cloud Platform.

Automatic Rotoscoping program in MATLAB

- Converted a short clip of video into an animated cartooned-style gif file with 10fps.
- Utilized *Bilateral Filter*, *Edge Function*, and *Imadjust Function* which led output gif to have fewer details, highlight edges, and higher contrast to imitate the cartoon style.

Chromatic Tuner on the Nexys 4 development board

- Built a chromatic tuner that can be used as a tool to properly tune musical instruments.
- Coded the UI for an LCD Board which is controlled by a rotary encoder and printed Hz.
- Refined the FFT function to make PDM Microphone on board be able to detect from 500Hz to 3000Hz with a rate of correction 98%.

SKILLS

- Programming: Python, SQL, Java, C++, MATLAB
- Languages: English and Chinese