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

Django Web Based Personal Portfolio Site

- Implemented the website with Python, Django for exhibiting my projects, blogs, resume, etc.
- Designed and developed the frontend with Bootstrap.
- Implemented MVC backend with Django and construct PostgreSQL.
- Deployed the prototype on DigitalOcean Platform and set up domain name. (huashengye.net)

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 Could Platform.

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, Java, C++, SQL, MATLAB
- Web general: HTML, CSS, JavaScript, Django, Bootstrap
- Languages: English and Chinese