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EDUCATION

• University of California, San Diego

Master of Electrical and Computer Engineering

San Diego, CA

Sep. 2019 - Present

• Hefei University of Technology

Anhui, China

Bachelor of Electronic Science And Technology, Major GPA: 3.80 /4.30 Rank 6/92

Sep. 2015 - June. 2019

PROJECT

• Star Social

Python, JavaScript, CSS, HTML

Personal project Jan 2020

• Overview: People can create groups on various topics, and create posts in the groups and use @ to link other users. Also, they can leave and join the groups free.

- Front-end: Using JavaScript and CSS to create the basic visual effect and the page frame. Also , there is sign up and sign in pages that can help user to join the site.
- o Back-end: Using Django to deal with the users management and social interaction between users.

• OS Kernel

CSE 120 Operating system

Jan 2020 - Present

- Context Switching: Implement the kernel function that help os to allocate CPU from one process to another and make sure the function can return correct of the program PID when fork or yield called.
- Scheduling: Implement different schedule policies that help multiple processes running with time sharing. These policies including FIFO, LIFO, Round Robin(RR), proportional (Stride Scheduling). By these policies, we can allocate CPU to each processes based on different requests so that we can optimal the turnaround time.
- Synchronization: Implement semaphores and use it to help different processes avoid busy waiting, prevent race condition and achieve synchronization.

• TimeCo

ECE 141 Software foundation

Jan 2020

- Calendar system: Basic calendar system provide output the calendar for specific months. Besides, users can add task or meeting in their own calendars, and show the summary for events in a month.
- Reservation system: Reservation system provide search function which can help users to find the earliest available time given a range of time and make an appointment in users' calendars. We use virtual function to help system search for different events simple and clear.

• Image Denoising with Deep CNNs

Python

ECE 285 Machine learning for image processing

Nov 2019

- Overview: Using BSDS data set as clear data, then add Gaussian noise on the image to get the noisy data. Using PSNR (Peak Signal-to-Noise-Ratio) as the optimal target.
- **DnCNN**: Using only 3x3 convolutions in the middle part of network and repeat it N times. And using a skip connection between the first and the last layer like ResNet.
- U-net like CNN: Using unpooling in order to retrieve the spatial dimension. The Network will consist of a contracting path and an expansive path, which gives it the U-shaped architecture.

• Birds Image Classification

Python

ECE 285 Machine learning for image processing

Nov 2019

• Transfer learning: Build a new classifier built on the principle of transfer learning from a pretrained VGG-16 network to classify different kinds of birds.

EXPERIENCE

• Arm China intern

Mar 2019 - Jun 2019

Using python to create the testbench which aims to analyze the signal generated by Verilog module.

SKILLS

• Programming languages: C++, C, Python, JavaScript, CSS, HTML, Java, Verilog

• Frame: Pytorch