Yimin Chen

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Education

Northwestern University — Evanston, IL
Master of Science in Electrical Engineering, GPA 4.0/4.0 — Anticipated Dec. 2016
Relevant Coursework: Design and Analysis of Algorithms, Intro to Databasis, Machine Learning, Intro to Communication Networks, Computational Photography, Biometrics, Probabilistics Systems, Human Computer Interaction, Tangible Interaction Design and Learning

Wuhan University — Wuhan, China
Bachelor of Engineering, Electrical Engineering, focus on Communication and Signal Processing track — June 2015
GPA: 84/100 Major GPA: 87/100

University of California, Berkeley — Berkeley, CA
Summer Session, Electronic Engineering and Computer Science — Jun. 2014 - Aug. 2014

Project and Research

Northwestern University Project — Jan. 2016 - Mar. 2016
·Helped Professor Mikhelson from Electrical Engineering and Computer Science department with a new course which will be opened in late 2016.
·Develop both the Android and web part for the course, which involved uploading pictures taken by a camera to the server and then showing the real-time images on both Android smart phone and the website.

Northwestern University Human Computer Interaction Project — Jan. 2016 - Mar. 2016
·Did some pre-work for the project including problem statment, interviewing potential users, describing representative tasks, creating personas and scenarios, and making both paper and computer prototyping.
·Built a website for protesting based on the course theme, Civics and Activisim and realized the following fuctions: creating a protest, searching for a protest under different catalogs and logging in personal account to find previous protests.

Northwestern University Database Management System Project — Jan. 2016 - Mar. 2016
·Wrote a basic database management system called SimpleDB and impleted the core modules required to access stored data on disk.
·Wrote a set of operators for SimpleDB to implement table modifications, selections, joins, and aggregates.
·Implemented a B+ Tree index for efficitient lookups and range scans in SimpleDB.

Northwestern University Computational Photography Project — Sept. 2015 - Dec. 2015
·Learned and developed the basic function of the Tegra Tablet, based on Andriod Studio and Java.
·Did some Basic image processing with the picture taken via Tegra based on Matlab, including measuring sensor noise, simulating flash photography environment with a non-flash camera, synthesizing HDR images, synthesizing from images with different focus point, and synthesizing aperture images.

Wuhan University Bachelor's Degree Thesis — Nov. 2014 - May 2015
Thesis: Research on Video-Based Pedestrian Counting Method
·Detected the pedestrian in the video of the street based on OpenCV.
·Counted the number of pedestrian in a sequence of time of the video based on OpenCV.
·Presented the new algorithn to detect the pedestrian which reduced the recognize errors.
·Improved the accuracy of the pedestrian counting method by around 3%.

Wuhan University Undergraduate Science Research Project — Apr. 2013 - Apr. 2014
Multisensory Pedestrian Detection Systems Based on Arduino
·Programmed on Arduino to control the sensors to detect the pedestrian.
·Used MATLAB and OpenCV to detect the face of pedestrain in the Digital Image Processing area.

Work Experience

Feidu Education Company — Wuhan, China
Tutor, Teaching Department — Jan. 2015 - Aug. 2015
·Tutoring high school student of following courses:
SAT Math, SAT2 Math&Physics, ACT Math&Science, AP Calculus&Physics

Low-Frequency Electronic Circuit Course — Wuhan University
Teaching Assistant — Sept. 2014 - Jan. 2015
·Responsible for checking the homework of students.
·Responsible for the lab section of the course.

Skills

·**Proficient with Language:** Matlab, C, Java, HTML5, CSS, SQL, JavaScript
·**Basic knowledge with Language:** OpenCV, C++, C#, Python