LILLYAN PAN

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EDUCATION

Cornell University – School of Engineering – GPA 3.76   May 2018
Candidate for Bachelor of Science in Computer Science, Minor in Electrical and Computer Engineering
- Meinig Family Cornell National Scholar (Leadership/Academics/ Service), Dean's List

RELEVANT COURSES

Object-Oriented Programming & Data Structures (Java); Digital Logic & Computer Organization; Discrete Structures; Introduction to Computing Using Python; Statistics, Quality, and Reliability; Introduction to C/C++; Introduction to Entrepreneurship and Enterprise Engineering

TECHNICAL EXPERIENCE

Shaffer - Nishimura Research Group   September 2015 - Present
Undergraduate Researcher, Cornell University, Ithaca, NY
- Optimizing image reconstruction algorithms and processes for implementation in multi-photon microscope for in vivo cardiac imaging.
- Implementation to be written and tested in MATLAB.
- Analyzing microinfarcts (microscopic strokes) expansion patterns and effects on surrounding cell behavior.

Engineering World Health   September 2014 - Present
ECE/CS Team Member, Business Team Chair, Cornell University
- Developed low-cost vitals signs monitor with SMS messaging capability to send real time updates and alerts to nurses using Arduino and Raspberry Pi.
- Field tested in Lima, Peru at MEDLIFE mobile clinic.
- To build water purity monitor with associated web application for the NGO Forefront.
- Managing company outreach efforts, budget, and purchasing collaboration for all sub teams as Business Team Chair.

Hall / Ramel Research Group   February 2014 - August 2014
Research Intern, University of Minnesota, Minneapolis, MN
- *Project 1* Neonatology research on the effect of intrauterine growth restriction (IUGR) on brain metabolite concentrations in the rat model.
- *Project 2* Data analysis through Excel on the relation between a mother's BMI during pregnancy and the neonate's body composition. Found that an increased pregnancy BMI led to increased adipose (fat) tissue ratios in offspring.

SKILLS

- Java, C/C++, Python, HTML, CSS, JavaScript, Swift, MATLAB
- Eclipse, Xcode, Ionic Framework, Arduino, Publisher

PROJECTS

Unhackathon   September 2015
NYC, NY
- Developed web application Timeout with team. Created associated Android app using Ionic Framework.
- Awarded "Best User Experience" prize.
- Used Twilio API to send text messages if the user went over a self-specified time on social media.
- Used Google Charts API to output a graph of user's social media usage.

LinkedIn DevelopHer Hackathon   August 2015
Sunnyvale, CA
- Developed web application Tiramisu with team.
- Used LinkedIn API to allow users to anonymously chat in real time with matched mentors for career advice.
- Website built through HTML, CSS, and JavaScript.

ADDITIONAL EXPERIENCE

Society of Women Engineers   September 2014 - Present
Career Development Chair, Cornell University
- Coordinating SWE's semi-annual Professional Networking Dinner– bringing 150+ students and representing 50+ companies.
- Contacting and interacting with company representatives, coordinating the logistics of the event, and creating design templates in Publisher.

United Way   September 2013 - August 2014
Board of Directors Member, Stillwater, MN
- Collaborated with community leaders for the "Give Where You Live" campaign aimed at addressing the unequal distributions of United Way donations.

Youth United Way   September 2012 - August 2014
President, Stillwater, MN
- Led group of 15 in fundraisers and events.
- Raised over $5K each year to allocate towards youth hunger and mental health support programs in the community.
- Nominated for Outstanding Youth Group by the Association of Fundraising Professionals.

MathCounts   August 2013 - March 2014
Head Volunteer Coach, Stillwater, MN
- Advocated to administrators and teachers for the continuation of middle school MathCounts Team.
- Received full funding from school and coached 25+ students.

INTERESTS

Gymnastics, dance/ballet, event planning, ted talks, doodling