Won Chung

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EDUCATION

Swarthmore College - Swarthmore, PA   **May 2018**
Bachelor of Arts in Computer Science and Bachelor of Science in Engineering
- Relevant Coursework: Computer Animation, Computer Architecture, Computer Systems, Computer Vision, Data Structures and Algorithms, Fundamentals of Digital Systems, Graphics, Theory of Computation
- Honors/Awards: Joyce Mertz Gilmore '51 Scholar, Entrepreneur Internship Summer Fellowship

EXPERIENCE

Web Intern - Swarthmore College Office of Sustainability - Swarthmore, PA   **January 2017 - Present**
- Coordinated with staff to maintain the Office of Sustainability website, http://www.swarthmore.edu/sustainability
- Created a website (in works) dedicated to an upcoming climate summit

Web Developer - MapMyOrg.net- LANG Center for Civic and Social Responsibility - Swarthmore, PA   **November 2016 - Present**
- Designed a user friendly mapping platform (currently working on version 2.0)
- Integrated Google Maps API enabling users to create pins describing civic engagement work and locating them on campus

Software Engineering Intern - Real Time Tomography - Villanova, PA   **May 2016 - July 2016**
- Merged applications with complementary functionalities
- Updated existing applications to be more user friendly and compensated for user input errors
- Created software to convert DICOM files to TIFF files, and vice versa

PROJECTS

Thresholding and Tracking - https://github.com/WonChung/Thresholding-Tracking   **February 2017**
- Used OpenCV2 RGB thresholding to distinguish objects and morphological operators to remove noise
- Performed a connected component analysis to determine whether a lifter needs a spot while bench pressing

Laplacian Pyramids - https://github.com/WonChung/LaplacianPyramids   **February 2017**
- Used Laplacian pyramid blending to make smooth transitions between two images
- Performed hybrid imaging to generate optical illusions

Swarthmore Eventspace - http://swateventsaround.me/   **January 2017**
- Compatible with all operating systems, platform, browsers
- *Front-End*: CSS, HTML, JS *Back-End*: Firebase *API*: Google Analytics, Google Maps
- Allows faculty, staff, students to add events with description, location, start time, end time, date, likes

Railway - https://github.com/WonChung/Railway   **December 2016**
- Implemented graph algorithms and applied them to a graph-based problem domain

The Solar System - https://github.com/WonChung/The-Solar-System   **October 2016**
- Created a representation of the solar system using OpenGL and a UI in Qt Creator

LEADERSHIP

Chair of Internal Affairs, Executive Board - Student Government Organization - Swarthmore, PA   **September 2016 - Present**
- Screened, interviewed, and appointed student applicants for college and student committees
- Managed relations between the college administration and students
- Created a fund to subsidize SEPTA tickets (for students) to Philadelphia
- Managed the 2017 Student Referendum on Divestment from February 20th-21st

Senator - Student Government Organization - Swarthmore, PA   **September 2015 - May 2016**
- Guided new clubs and organizations through the chartering process
- Funded clubs and organizations in the process of chartering

Green Advisor - Swarthmore College Office of Sustainability - Swarthmore, PA   **August 2016 - Present**
- Worked with staff to reduce power consumption on campus buildings
- Utilized Python scripts to optimize dorm composting

Founder - LaunchDeck - Swarthmore, PA   **November 2015 - Present**
- Co-hosted Swarthmore Local Hack Day on Dec. 3rd, 2016
- Sponsoring Hack the Trico from March 24th-25th
- Hosted app and web development workshops for students

SKILLS & INTERESTS

Programming Languages: C, C++, C#, CSS, Jade, Java, Javascript, MATLAB, Python, Verilog
Hobbies: Ultimate Frisbee, *League of Legends*, *StarCraft*, Building Desktops, Repairing Laptops, Swapping Hardware