YIH-JEN KU

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EDUCATION

COLUMBIA UNIVERSITY CLASS OF 2016
The Fu Foundation School of Engineering & Applied Science
Bachelor of Science in Applied Mathematics, Concentration in Data Science and Computer Science
GPA: 3.81/4.0; Expected Graduation Date: May 18, 2016

APPLICABLE COURSEWORK *Completed:* Data Structures in Java, Intro to Python, Probability, Statistical Inference, Discrete Mathematics *Current Coursework:* Advanced Programming in C/C++, Numerical Methods, Analysis & Optimization

PROFESSIONAL EXPERIENCE

GOLDMAN SACHS
Prime Services Division Summer Technology Analyst • Summer 2015
Offer received. Design and implement a user interface that tracks and generates reports against data servers for underperforming database queries and allows application managers to view and take action. Utilize AngularJS and Bootstrap for frontend development and Hadoop and Spark for backend data organization.

COLUMBIA UNIVERSITY MATHEMATICS DEPARTMENT
Undergraduate Teaching Assistant • September 2013 – Present
Administer three office hours per week to all undergraduate students seeking supplementary assistance with Pre-Calculus, Calculus I, II, III, or IV; Review material and grade problem sets and exams for a class of ~100 students.

COLUMBIA UNIVERSITY ACADEMIC SUCCESS PROGRAM
Residential Counselor & Teaching Assistant • Summer 2014
Over the course of six weeks, mentor 66 newly admitted students carefully selected by Columbia Admissions and the Center for Student Advising coming from disadvantaged backgrounds; Collaborate with Columbia administration to track each student's progress over the course of the program; Introduce them to resources at Columbia; Tutor nightly in Physics, Chemistry, Calculus, and Writing; Organize events around NYC; Facilitate living in the dormitory.

MIDDLESEX SCHOOL SUMMER ARTS PROGRAM
Assistant Technical Director, Junior Counselor • Summer 2012 & Summer 2013
Direct the technical productions for five to six three-hour theater productions each session (i.e. lighting & sound design, set design, stage crew direction, building crew direction); Collaborate across theater departments to ensure seamless productions; Instruct courses in Lighting & Sound, Technical Theater & Design, Woodworking, and MSSA Newspaper

PROJECTS @ GitHub.com/ yihjenku

LIGHTWEIGHT ROWING DATABASE @ C150.YIHJEN.COM *(password required)*
Scripts written in Python first collect and analyze the data of 40 rowers using MongoDB. Then, published online using Flask, this web application displays a team page with all statistics, times, and records for the team and individual rower pages that compare an individual's stats with his teammates and Olympic-level lightweight rowers.

PERSONAL WEBSITE @ YIHJEN.COM
Personal website written in HTML, CSS, and JavaScript.

SKILLS & INTERESTS

PROGRAMMING & DESIGN Python, Java, HTML, CSS, JavaScript, Flask, MongoDB; Matlab, Mathematica, LaTeX; Adobe Creative Suite (InDesign, Photoshop); Google SketchUp; Microsoft Office (Word, Excel, PowerPoint, Publisher)
LANGUAGE *Native:* English, *Secondary:* Mandarin Chinese **CITIZENSHIP** United States

LEADERSHIP & ACTIVITIES

NCAA DIVISION I MEN'S LIGHTWEIGHT ROWING
Varsity Coxswain • Columbia University: 2012 – Present
Coordinate and coach the rowers in and out of the boat; Effectively communicate instructions from the coaches and critical information during races and practices to the rowers; Motivate and rally the team to achieve their best performance in every race; Compile and study each rower's stats to optimize their individual athletic potential.

ENGINEERING STUDENT COUNCIL
Student Life Committee Member • Columbia University: 2014 – Present
Work closely with a committee of eight in order to enhance the campus experience for students in both the engineering school and the rest of the undergraduate population; Plan and organize school and university-wide events with the overall goal of fostering Columbia pride and SEAS school spirit; Take minutes at committee meetings and research past events.

ACADEMIC AWARDS & HONORS

Spring Academic All-Ivy League (2015)
Columbia University Student-Athlete 4.0 Club (2013, 2015)
Intercollegiate Rowing Association All-Academic Team (2014, 2015)
John Lyon Collyer Award, Men's Varsity National Lightweight Eight (3rd Place, 2014; 2nd place, 2015)
Kenneth F. Burns Memorial Award, 2nd Varsity Lightweight Eight Eastern Sprints Champion (2014)
Columbia University Dean's List & Scholar-Athlete (2012, 2013, 2014)