Angelica Chen
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Education

Princeton University - Princeton, NJ   *Graduation: May 2017*

Degree Expected: Bachelor of Arts in Mathematics or Computer Science

Certificate Expected: Applications of Computing

Relevant Coursework: Analysis in a Single Variable, General Computer Science, Analysis in Several Variables, Algorithms and Data Structures, Introduction to Programming Systems, Reasoning about Computation, Algebra I, Complex Analysis

Affiliations: The American Whig-Cliosophic Society (Director of Website & Technology), International Relations Council (PMUNC Webmaster), Innovation Magazine (Writer, Web Designer), The Daily Princetonian (Operations Consultant), Taiwanese American Student Association (Executive Board Member), Principia: The Princeton Undergraduate Mathematics Journal (Webmaster)

Experience

Princeton Model United Nations, Website Developer, May 2014 - Present

- Designed the website front-end using Bootstrap, HTML/CSS, Javascript, and AJAX
- Designed a back-end system for organizing registration data, assigning committees, and writing data to Excel files using PHP and MySQL
- Website located at: irc.princeton.edu/pmunc

l'Institut de Recherche pour le Développement (IRD), Research Intern, June 2014 - Present

- Wrote Java web-scraping scripts to compile the first global database of bacterial meningitis incidence data
- Developed a wavelet analysis method in R to analyze and detect periodicity in global bacterial meningitis trends

Stanford HEAT Institute, Software Engineering Intern, August 2014 - Present

- Developed both front-end and back-end for the first NHL-customized social network
- Wrote Java scripts for analyzing sentiment in athletes' and fans' tweets

Courant Institute of Mathematical Sciences, Artificial Intelligence Research Intern, Jun. - Aug. 2013

- Formulated logical axioms describing human common sense and proved them using SPASS
- Published research for the 2nd Annual Conference on Advances in Cognitive Systems

Alcatel-Lucent Bell Labs, Research Intern, Jan. - Jun. 2013

- Conducted mathematical analysis of wireless data traffic using Mathematica
- Analyzed emptying time for paused slotted ALOHA systems

Heffner Biomedical Imaging Laboratory, Research Intern, May - Nov. 2012

- Developed a software for predicting patients risk of developing severe complications after undergoing transcatheter aortic-valve replacement (TAVR) using Python and MATLAB
- Published and presented algorithm for recognizing the aortic annulus at the 2012 IEEE Healthcare Innovation Conference

Relevant Skills

Programming: Java, C++, Python

Web Development: HTML, CSS, PHP, Javascript, MySQL

Data Analysis: R, MATLAB, Mathematica

Publications

Reasoning from Radically Incomplete Information: The Case of Containers - *Advances in Cognitive Systems*. Davis, E., Marcus, G., Chen, A.; December, 2013

Development of an Automatic Algorithm for 3-Dimensional Aortic Annular Measurements for Prediction of Transcatheter Aortic Valve Replacement Outcome - *Proceedings of the 2012 IEEE Healthcare Innovation Conference*. Angelica Chen, *et al.*; November 8, 2012