Gabrielle A. Taylor

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Education

Columbia University, School of Engineering and Applied Science, New York, NY. Bachelor of Science in Computer Science, expected May 2017

Immaculate Conception High School, Kingston, Jamaica. June 2013

Experience

Computer Science Department, Columbia University. *Undergraduate Project, September 2016 - Present*
Robotics and data structures visualization project using Sphero robot platform to show path planning algorithms in real time on iOS app written in Swift. Project mentored by Paul Blaer, Lecturer In Discipline.

Computer Science Department, Columbia University. *Teaching Assistant, June 2016 - July 2016*
TA for for Fundamentals of Computer Systems, introductory class to digital logic and computer organization.

Computer Science Department, Columbia University. *Teaching Assistant, July 2016 - August 2016*
TA for Data Structures in Java, introductory class to data types and structures.

The Art of Engineering, CS/CE Project, Columbia University. *Teaching Assistant, January 2015 - Present*
TA for project for Freshman CS/CE students, writing firmware in C for an HP 20b Business calculator.

American Institute of Aeronautics and Astronauts, Columbia Branch. *Webmaster, Sept 2014 - Present*
Redesigned, implemented and maintain website at www.columbia.edu/cu/aiaa

Computer Science Department, Columbia University. *Office Assistant, June 2015 - May 2016*
Perform various tasks around the department for Administrative and Teaching Staff

Intro. to 3-D Animation Summer Camp, CS Department, UWI Mona, Jamaica. *Tutor, August 2011 and July 2010*
Taught students in middle and high school basic programming and animation concepts using Alice.

Skills

- Proficient in C, Java, Python
- Basic proficiency in Swift, SystemC, SystemVerilog, C++, MIPS assembly language, HTML, JavaScript, CSS, MATLAB, LaTeX and Pascal.
- Currently learning Mandarin Chinese. Basic proficiency in Spanish.

Relevant Coursework

- COMS3998 Undergraduate Projects in CS
- COMS4115 Programming Languages & Translators
- COMS4156 Advanced Software Engineering
- COMS4170 User Interface Design
- CSEE4868 System-On-Chip Platforms
- CSEE4140 Networking Lab
- CSEE4840 Embedded Systems
- CSEE4824 Computer Architecture
- CSEE4119 Computer Networks
- CSEE3827 Fundamentals of Computer Systems
- COMS3202 Discrete Math
- MATH2010 Linear Algebra
- SIEO4150 Intro to Probability and Statistics
- COMS3261 Computer Science Theory
- COMS3157 Advanced Programming
- COMS3131 Data Structures in Java
- ENGI1006 Intro to Computer Science in Python
- MSAE1001 Atomic Scale Eng. of New Materials
- ENGIE1102 The Art of Engineering

Extracurricular

Application Development Initiative Labs, Columbia University, September 2015 - December 2015
Columbia University Chamber Ensemble, Oboe and Piano, September 2014 - May 2015
American Institute of Aeronautics and Astronauts, Columbia Branch, 2013 - Present
Women in Computer Science, Columbia Branch, 2014 - Present
ICHS Symphony Orchestra: First Oboist, Head of Wind Section and Orchestra Secretary, 2009 - 2013

Honors & Awards

- First in the Caribbean in Computer Science in 2013 Unit 2 Caribbean Advanced Proficiency Examinations
- Third in the Caribbean in Computer Science in 2012 Unit 1 Caribbean Advanced Proficiency Examinations