

TIMOTHY L GOODWIN

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EDUCATION

COLUMBIA UNIVERSITY, Fu Foundation School of Engineering and Applied Science Pursuing B.S. in Computer Science, minor in Electrical Engineering	New York, NY Expected May 2017
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Cumulative GPA (as of Spring 2016): **3.68**
Honors: **Dean's List** (Fall 2013 — Present)

WORK AND RESEARCH EXPERIENCE

Wireless & Mobile Networking Laboratory, Columbia University <i>Undergraduate Researcher</i> Adaptive Multicast Services: Developing solutions for wireless multimedia content delivery in crowded venues where networks are overloaded due to a lack of wireless spectrum.	New York, NY 2016 - Present
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Goldsmith & Co. <i>Software Development Intern</i> Full stack development of company client management system. Development includes UI/UX design, relational databases, prototyping, quality and performance testing, and release management.	New York, NY Fall 2015 - Present
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Research Group of Dr. Richard Osgood Jr, Columbia University <i>Undergraduate Researcher, Photonic Devices Laboratory</i> Researching nanophotonic devices involving newly developed fabrication techniques. Research is heavily focused on developing passive crystal devices for lightwave frequency conversion, applications to optical computing, fiber-optic communications, and biomedical laser technology.	New York, NY Spring/Summer 2015
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Integral Group, Inc. <i>Engineering Intern, Data Science</i> Wrote scripts to process sunlight and climate data collected at planned project sites. Used climate and materials data to mathematically model energy usage for proposed building projects. Integrated sunlight and wind data with existing architectural modeling to create graphics depicting the build plan's energy optimization strategies.	Los Angeles, CA Summer 2014
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California Institute of Technology <i>Student Researcher, Solar Materials Discovery Program</i> Combinatorially tested the photoactivity of various metal oxide compounds in pursuit of a cheap solar cell material that could use sunlight to produce hydrogen fuel from water. Developed new methods for synthesizing metal oxide films on electrically conductive glass. Documented newly developed research methods so procedures could be reimplemented in a high school environment.	Pasadena, CA 2010 — 2013
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TECHNICAL SKILLS

Programming:	Extensive experience with C, Python, Java, Javascript, HTML5/CSS, Git Experience with C++, MySQL, MongoDB, Node.js
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EXTRACURRICULAR INVOLVEMENTS

Web Developer, Rare Candy Magazine Site design and maintenance, developer for map-based music discovery web app	New York, NY Summer 2015 - Present
Webmaster, Alpha Delta Phi Society, Columbia Chapter Developing and maintaining the chapter's webpage and internal databases	New York, NY Spring 2015 — Present
Radio Programmer, WBAR Barnard College Freeform Radio Hosting a radio show for three consecutive years, current show titled <i>Everything So Far</i>	New York, NY Fall 2014 - Present