

Carlos Martin

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Education	Columbia University , BS in Computer Science, GPA 3.88 (Dean's List) Minors: Applied Physics, Applied Mathematics Mulgrave School , International Baccalaureate Diploma Programme	Expected May 2018 May 2014
Experience	Summer analyst , Goldman Sachs Developed automated information retrieval and information extraction system Software developer , Wolfram Research Developed step-by-step educational problem-solving software for Mathematica Undergraduate researcher , Columbia University Lightwave Research Laboratory Researched parallel computing architectures and algorithms using OpenMP and MPI Summer school participant , Wolfram Research Researched the dynamics of cellular automata and other computational systems Undergraduate researcher , TRIUMF national laboratory Researched laser ion sources and laser resonance ionization spectroscopy Software developer , Appazur Solutions Developed cross-platform app using Django, PhoneGap, Sencha, Mixpanel, Twilio	Jun – Aug 2016 Jan – May 2016 Jun – Aug 2015 Jun – Jul 2015 Jun – Aug 2014 Aug 2013
Publications	Predicting the large-scale evolution of tag systems. <i>Complex Systems</i> , 25, 2. Generation and analysis of lamplighter programs. Submitted for review. arXiv:1707.02652.	May 2016
Volunteering	Board member , Columbia Data Science Society Organizing data science and machine learning workshops and hackathons Student ambassador , Wolfram Research Organizing workshops about Mathematica and the Wolfram technology stack Software developer , ADI Labs Developed Bayesian online changepoint detection system for stream processor Software developer , Columbia Organization of Rising Entrepreneurs Developed website using Flask, Bootstrap, Sass, and Material Design Secretariat member , British Columbia Model United Nations Organized multiple provincial conferences and developed organization website SHAD Entrepreneurship Cup Created business plan and prototype for navigation service, competed at national level	Oct 2015 – present Dec 2015 – present Sep – Dec 2015 Sep – Dec 2015 Feb 2013 – May 2014 Jul 2013
Honors	Fluor Foundation scholarship Awarded for excellence to students enrolled in engineering programs Egleston scholarship Awarded for extraordinary achievement as a student, researcher, and leader Certificates of distinction in Pascal, Cayley, Fermat, Euclid, and Senior math contests Awarded by the Centre for Education in Mathematics and Computing TRIUMF national laboratory fellowship Awarded to students with a passionate interest and demonstrated excellence in physics Certificate of excellence in Michael Smith Science Challenge Awarded by the Natural Sciences and Engineering Research Council of Canada	May 2016 Sep 2014 2010 – 2014 May 2014 Feb 2012
Skills	Machine learning: neural networks, decision trees, clustering, graphical models, reinforcement learning Programming languages: Python, Java, C++, JavaScript, Haskell, Matlab, Mathematica Computational physics: electromagnetics, fluid dynamics, rigid body dynamics, differential geometry Language proficiency: English and Spanish (bilingual), Mandarin Chinese (elementary) Debate and public speaking: National Seminar (2012), Senior Nationals (2013), Oxford Cup (2014)	
