D. Zack Garza

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EDUCATION	 University of California, San Diego, La Jolla, CA, USA B.S. Mathematics Minor in Computer Science Major GPA: 3.723 	Aug 2015 – Jun 2018
	 University of California, Berkeley, Berkeley, CA, USA Concurrent Enrollment CS 70: Discrete Mathematics and Probability Theory EE 20: Structure and Interpretation of Systems and Signals Cumulative GPA: 3.33 	Sep 2014 – Jun 2015
	 Sierra College, Rocklin, California, USA A.A. Mathematics A.S. Physics A.A. Fine Arts 	Sep 2011 – Jun 2014
WORK EXPERIENCE	 Retail Scientifics, San Diego, CA Data Scientist & Full Stack Engineer API development for real-time predictive modeling and machine learning. 	Jan 2016 – Present
	 Google Summer of Code, Berkeley, CA Student Developer Contributed Haskell code to the open source project Hackage. 	Apr 2015 – Aug 2015
	 Shutterfly, Santa Clara, CA Software Engineer, Intern/Contractor Server-side OpenGL engine development for rendering 3D models. 	Jun 2014 – Jan 2015
AWARDS & SCHOLARSHIPS	 Diana C. Miles Scholarship Errett Bishop Scholarship Richard L. and Fern W. Erion and Laidlaw-Erion Scholarship Provost Honors (Muir College, UC San Diego) 	2017 - 2018 2016 - 2017 2016 - 2017 2015 - 2016
CAMPUS ACTIVITIES	Society of Undergraduate Mathematics Students , University of California, San • President	Diego 2016 – 2018
	Mathematics Club, Sierra College ■ Officer	2013 – 2014
TECHNICAL SKILLS	Android, C, C++, ECMAScript, Bash, Git, HTML5/CSS3, Haskell, Java, Javascript, LaTeX, MATLAB, Node, NumPy, OpenGL, PHP, Python, R, SAGE, SQL, Unix/Linux	
WORKSHOPS AND TALKS GIVEN	Homotopy and the Hopf FibrationTopological Fixed Point Theorems	Jun 2018 Mar 2018
	 Homology and The Snake Lemma Algebraic Geometry: A Historical Primer Introduction to Functional Programming Intermediate LaTeX Introduction to LaTeX Intermediate LaTeX Organizing Research Projects with LaTeX Category Theory as an Organizational Tool Introduction to LaTeX 	Nov 2017 Oct 2017 Oct 2017 May 2017 Apr 2017 Feb 2017 Jan 2017 Jan 2017

	 Introduction to Category Theory, Part 2 Introduction to Category Theory, Part 1 Haskell for Mathematicians Discrete Mathematics: An Overview of Graphs and Trees 	Nov 2016 Oct 2016 Oct 2016 May 2014
COURSEWORK	 Graduate Coursework Algebraic Topology Topics in Real Analysis: Quantum Mechanics (Graduate) Functional Analysis Algebra 	Fall 2017 – Spring 2018 Spring 2017 Fall 2016 – Winter 2017 Fall 2017
	 Undergraduate Coursework Cryptography Numerical Methods and Physical Modeling Image Processing 	Winter 2018 Fall 2017 Fall 2017
	 Applied Linear Algebra Partial Differential Equations Computer Vision Complex Analysis History of Mathematics (Hyperbolic Geometry) Theory of Computation Introductory Machine Learning Discrete Math and Graph Theory Design and Analysis of Algorithms 	Summer 2017 Summer 2017 Spring 2017 Spring 2017 Spring 2017 Winter 2017 Winter 2017 Winter 2017 Fall 2016
	 Number Theory Advanced Data Structures Knot Theory Point-Set Topology Mathematical Algorithms and Systems Analysis in Computer Science Probability Software Tools and Techniques Combinatorics Abstract Algebra Real Analysis 	Summer 2016
	 Mathematical Reasoning and Proof Vector Calculus Structure and Interpretation of Signals and Systems Assembly Programming (x86) C++ Programming Finite Mathematics and Linear Programming Discrete Mathematics and Probability Theory Structure and Interpretation of Computer Programs (Python) 	Summer 2015 Summer 2015 Spring 2015 Spring 2015 Spring 2015 Spring 2015 Fall 2014 Fall 2014
	 Elementary Statistics Introduction to Unix Discrete Mathematics Electrical Circuit Theory Differential Equations and Linear Algebra Data Structures 	Summer 2014 Summer 2014 Spring 2014 Spring 2014 Spring 2014 Fall 2012
	 General Chemistry Physics: Mechanics, Electromagnetism, Optics, and Waves Calculus: Single and Multivariable Systems Programming with C Discrete Structures in Computer Science Object-Oriented Programming 	Spring 2013 – Summer 2013 Fall 2012 – Spring 2013 Fall 2012 – Spring 2013 Fall 2012 Fall 2012 Spring 2012