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Jeremy Irvin

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Education	Stanford, M.S. Computer Science Artificial Intelligence Track	Sep 2016 - June 2018
	UC Santa Barbara, B.S. Computer Science and B.S. Mathematics, 3.97/4.00 GPA College of Creative Studies (CCS) <i>Accelerated B.S. Program - "A Graduate School for Undergraduates"</i> <ul style="list-style-type: none">Regents Scholar, ranked top of class (Nineteen A+ grades in core classes)	2012 - June 2016
Experience	Software Engineer Intern, Microsoft Bing Predicts <ul style="list-style-type: none">Created a model to predict the MTV Video Music Awards's using Bing search and social dataWrote Python for scraping, feature engineering, model testing, and MART Gradient Boosting trainingAdditionally implemented LSTM's for time series forecasting using Keras and CNTK	Summer 2016
	Software Engineer Intern, Microsoft Satori (Knowledge Graph) Within Bing <ul style="list-style-type: none">Developed an algorithm to detect subtle entity relations in an immense ontology and rank them by noveltyWrote C# and internal query language as part of an R&D ML pipelineIncreased run-time by two orders of magnitude, allowing for efficient discovery of the relations	Summer 2015
	Intern, Silicon Valley Education Foundation Stepping Up To Algebra <i>Intervention program to help students complete Algebra I and increase student aspirations to attend college.</i> <ul style="list-style-type: none">Instructed and tutored a large group of at risk students in basic algebraHelped plan and conduct the final cumulative Parent-Teacher college preparation meeting	Summer 2013
	Research Assistant, UCSB <i>Undergraduate Senior Thesis with Professor Moscoso</i> <ul style="list-style-type: none">Applying dynamical systems and causal modeling techniques to linguistic data (using Python and R) to understand the underlying complex nonlinear patterns of language development in childrenFirst author paper accepted by <i>Cognitive Science</i> and second author paper submitted to <i>ACL</i>UCSB Undergrad Research Colloquium Best Humanities Research Prize Winner	September 2015 - June 2016
Research and Projects	Co-lecturer, UCSB <ul style="list-style-type: none">Co-taught a course on ML, NLP, and Deep LearningCreated over 250 lecture slideshttp://computer-learning.github.io/class/	Winter 2016
	Skills <ul style="list-style-type: none">Languages: Python, C, R, C#, C++Mastery of Python, including data munging, plotting, and many machine learning algorithms in scikit-learnExperience with web crawling using Scrapy and SeleniumProficient with SQL and MySQL, especially experienced with relational databasesCopious experience with source control using Git	
Noteworthy Courses	<ul style="list-style-type: none"><u>Computer Science</u>: Advanced Data Mining and Neural Networks, Machine Learning, Parallel Computing<u>Mathematics</u>: Linear Programming and Optimization, Linear Algebra, Multidimensional Analysis, Probability and Statistics, Graph Theory, Stochastic Processes<u>Supplemental Data Science Courses</u>: Stanford CS224d Deep Learning for NLP, Stanford CS229 Machine Learning, UToronto Neural Networks, Stanford Natural Language Processing	
References	Dr. Yuqing Gao Microsoft Distinguished Engineer yuga@microsoft.com	Dr. Maribel Bueno UCSB Professor, Head of CCS Mathematics (805) 893-5245 mbueno@math.ucsb.edu