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Jeremy Irvin
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Education	Stanford, M.S. Computer Science, 4.00/4.00 GPA 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) 2012 - June 2016 <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)
Experience	Software Engineer Intern, Microsoft Bing Predicts Summer 2017
	Software Engineer Intern, Microsoft Bing Predicts Summer 2016 <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
	Software Engineer Intern, Microsoft Satori (Knowledge Graph) Within Bing Summer 2015 <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
Projects and Research	Recurrent Neural Networks with Attention for Genre Classification Fall 2016 <ul style="list-style-type: none">Implemented RNN's and LSTM's for automatic genre classification of songs using audio spectrogramsAll code written in Python using TensorFlowAchieved results comparable to state-of-the-art using hand-crafted features
	Research Assistant, Stanford <i>Deep Learning Bootcamp with Professor Andrew Ng</i> September 2016 - <ul style="list-style-type: none">Selective quarter-long course to develop expertise and publish in deep learningImplemented NMT with Attention, Variational Autoencoder, and Zero Shot Translation in TensorFlow
	Research Assistant, UCSB <i>Undergraduate Senior Thesis with Professor Moscoso</i> September 2015 - June 2016 <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
Teaching	Co-lecturer, UCSB Winter 2016 <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/
Skills	<ul style="list-style-type: none"><u>Languages</u>: Python, C, R, C#, C++Mastery of Python (5 years of daily coding experience), Expert in C (4 years)Expert with TensorFlow and scikit-learn, familiar with Keras and CNTKExperience with web crawling using Scrapy and SeleniumProficient with SQL and MySQL, especially experienced with relational databasesCopious experience with source control using Git
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