

JOSUÉ J. ALFARO

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EDUCATION	The University of Texas at Austin 08/2018 - 05/2020 M.S. in Computer Science GPA: 3.8 / 4.0 <i>Relevant Courses:</i> Natural Language Processing, Deep Learning, Math in Deep Learning, Grounded Natural Language Processing, AI in Health <i>Fellowship:</i> Gates Millennium Scholar 2013
	The University of Texas at Austin 08/2013 - 05/2017 B.S. in Electrical and Computer Engineering GPA: 3.7 / 4.0 <i>Relevant Courses:</i> Data Structures, Algorithms, Operating Systems, Concurrent and Distributed Systems, Computer Architecture <i>Scholarships:</i> Gates Millennium Scholar 2013, Terry Foundation Scholar 2013
EXPERIENCE	Strangeworks 04/2019 - 09/2019 Software Engineer Intern Tech Used: Go, Python, MySQL, Docker, Kubernetes, Google Cloud, Git → Developed REST API to interact with customized Jupyter Notebooks → Deployed a customized JupyterHub on GCP
	Honest Dollar 09/2017 - 09/2018 Software Engineer Tech Used: RxJava, Spring, MongoDB, Git → Implemented reactive microservices (with REST API) → Developed infrastructure for mass migration onto new platform
	Goldman Sachs Group, Inc. 06/2016 - 08/2016 Software Engineer Intern Tech Used: Java, Spring, Elasticsearch, Angular 2 → Developed internal web application to improve user experience → Developed a REST API to allow front-end consumption of data
	Lenovo Group Ltd. 05/2015 - 12/2015 Software Development Intern Tech Used: Java, SAS Analytics → Developed web crawler to download consumer data from retail site → Labeled Spanish consumer data for binary classification
PROJECTS	Semantic Parsing with Encoder-Decoder Model → Developed seq2seq model for translating a Geoquery dataset (Zelle and Mooney, 1996) into Prolog formulas → The model consists of bidirectional LSTM encoder-decoder with bilinear attention and scheduled sampling, achieving 79% token-level accuracy and 62% denotation match
	Teaching an Agent to Drive a Racecar with Imitation Learning → Implemented convolutional deep neural network to complete a racing lap → Extended imitation learning by incorporating Dataset Aggregation method
	Clinically Accurate Report Generation from Chest X-Ray Images → Implemented Adaptive Attention and Hierarchical LSTMs to generate coherent medical reports → Implemented Self Critical Sequence Training to reduce exposure bias and improve clinical accuracy
SKILLS	<i>Languages</i> Python, Java, Go, C++, Rust, C# <i>Tools</i> Vim, Git, Travis CI, Splunk <i>Clouds</i> Google Cloud Platform, Amazon Web Services <i>Frameworks</i> Pytorch