JOSUÉ J. ALFARO

⚡ josuealfaro.com   ✉ josuejalfaro@gmail.com   in jjalfaro9   📱 +1 (737) 781 8118

EDUCATION	**The University of Texas at Austin**	08/2018 - 05/2020

M.S. in Computer Science
GPA: 3.8 / 4.0
Relevant Courses: Natural Language Processing, Deep Learning, AI in Health,
Math in Deep Learning, Grounded Natural Language Processing,
Intro To Quantum Information Science
Fellowship: 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
Relevant Courses: Data Structures, Algorithms, Operating Systems,
Concurrent and Distributed Systems, Computer Architecture
Scholarships: 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

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

Semantic Parsing with Encoder-Decoder Model
  ↦ Developed seq2seq model for translating a Geoquery dataset 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

SKILLS

Languages Python, Go, Java, C++, Rust, C#
Tools Vim, Git, Travis CI
Clouds Google Cloud Platform, Amazon Web Services
Frameworks Pytorch