Gustavo Aguilar

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EDUCATION

Ph.D. in Computer Science

Aug 2016 - May 2021 (Expected)

University of Houston

Houston, TX

Research: Natural Language Processing, Advisor: Dr. Thamar Solorio

GPA: 3.89 / 4.0

Bachelor of Science in Computer Science Universidad Centroamericana José Simeón Cañas Mar 2010 - Oct 2015

La Libertad - El Salvador

Thesis: VR Algorithm Using Kinect Camera for Amputees Undergoing Rehabilitation

GPA: 8.31 / 10.0 — Top 3 in class of 2015

EXPERIENCE

Sep 2016 - Present Research Assistant

University of Houston at RiTUAL lab, Dr. Thamar Solorio

Houston, TX

- · Named entity recognition on user-generated text with deep learning
- · English-Spanish code-switching on social media data

Applied Machine Learning Scientist (Intern)

May 2018 - Aug 2018

Amazon, Alexa Speech, Dr. Chao Wang

Cambridge, MA

· Conducted research on emotion recognition and multimodal data

Jan 2018 - May 2018 Teaching Assistant

Introduction to Natural Language Processing (COSC 6336), Dr. Thamar Solorio

Houston, TX

- · Elaborated and graded in-class assignments, homework and practical exams
- · Held weekly office hours and covered lectures when needed

Nov 2013 - Jul 2016 Game Developer San Salvador, El Salvador

Beyond Games Inc. · Programmed in different areas of game development (Gameplay, Graphics and AI)

- · Co-led a team of 14 engineers (and reviewed the team's code)
- · Presented updates of the team's progress to senior management

Feb 2013 - Oct 2013 Programmer Avianca Airlines

· Developed an ETL software for Avianca's subsidiaries

La Libertad, El Salvador

· Modified peripheral applications to work with Oracle Enterprise Business Suite (EBS)

TECHNICAL SKILLS

Python, C#, C/C++, F#, Java, Elixir, PLT Scheme, Prolog Programming Languages

Web Programming JavaScript, NodeJS, ReactJS, HTML/CSS, PHP, Web Socket, RestWS

MongoDB, Oracle, MySQL, PostgreSQL, SQL Server **Database Engines** Computer Networking Network Topologies, Switch and Router Configuration

Libraries Scikit-learn, NLTK, Reactive Programming (Rx), OpenGL

Deep Learning Libraries PyTorch, Keras, TensorFlow

Other skills Git, SVN, Unity3D

HONORS AND AWARDS

- · Recipient of the 2019 Snap Inc. Research Fellowship
- · Recipient of the Facebook Scholarship for the Udacity Deep Learning Nanodegree (PyTorch)
- · Scholarship to attend the CRA Grad Cohort Workshop for URMD, 2019
- · Best Junior Ph.D. Student Award granted by the Computer Science department of the Univ. of Houston, 2018
- · Univ. of Houston Alumni Association (UHAA) and Natural Sciences and Mathematics (NSM) Scholarship, 2018
- · First place on Noisy User-generated Text (W-NUT) shared task at EMNLP 2017
- · Dean's List, 2010-2014, Universidad Centroamericana José Simeón Cañas (UCA)
- \cdot Absolute chess champion of El Salvador in 2012
- · Governmental award for sporting excellence in chess, El Salvador 2008
- · Absolute U20 chess champion of El Salvador at the age of 15, 2007
- · Central American & Caribbean U14 and U16 chess champion, 2006-2008
- · Chess coach at UCA, 2011-2013

RESEARCH ACTIVITIES AND SERVICES

- · Speaker at Data Science El Salvador community, December 2018.
- · Speaker at the Computer Science Focus on Research (FOR) seminars at the Univ. of Houston, Fall 2018
- · Co-organizer of the third workshop on Computational Approaches to Linguistic Code-Switching (CALCS), collocated with ACL 2018 (Melbourne, AU). Leading the shared task on Named Entity Recognition on English-Spanish code-switched data.

PUBLICATIONS

- · Gustavo Aguilar, Fahad AlGhamdi, Victor Soto, Mona Diab, Julia Hirschberg and Thamar Solorio. Named Entity Recognition on Code-switched Data: Overview of the CALCS 2018 Shared Task. In *Proceedings of the Third Workshop on Computational Approaches to Linguistic Code-Switching*, ACL 2018. Melbourne, Australia.
- Gustavo Aguilar, A. Pastor López Monroy, Fabio A. González and Thamar Solorio. Modeling Noisiness to Recognize Named Entities using Multitask Neural Networks on Social Media. In The 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics, NAACL 2018. New Orleans, Louisiana.
- · Gustavo Aguilar, Suraj Maharjan, A. Pastor López Monroy, and Thamar Solorio. A Multi-task Approach for Named Entity Recognition on Social Media Data. In *Proceedings of the 3rd Workshop on Noisy User-generated Text*, EMNLP 2017. Copenhagen, Denmark 1st place in the evaluation categories.
- · Gustavo Aguilar, Oscar Dueñas, and Guillermo Cortés (advisor). Diseño de Algoritmo para Rehabilitación Virtual basado en la Cámara Kinect (Virtual Reality Algorithm Using Kinect Camera for Amputees Undergoing Rehabilitation), 2015 short article based on my bachelor's thesis.

OTHER

- · English and Spanish speaker
- · Professional chess player for 12 years