

Dennis Sosa



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EDUCATION

Georgia Institute of Technology, College of Computing, Atlanta, GA

Master of Science: Computer Science

Specializations: Artificial Intelligence, Machine Learning

GPA: 3.87/4.00

Expected: December 2018

Stony Brook University, College of Engineering & Applied Sciences, Stony Brook, NY

Bachelor of Engineering: Computer Engineering – Honors Program

Minor: Computer Science

GPA: 3.71/4.00

Earned: May 2017

Honors/Awards: Undergraduate Degree with Distinction: Magna Cum Laude, Academic Excellence Undergraduate Award, GEM Fellowship

Relevant Coursework: Artificial Intelligence (AI), Knowledge-based AI, Game AI, Computational Creativity, Machine Learning, Data & Visual Analytics, Database System Concepts & Design, Computability & Algorithms, Computer Vision, Machine Learning for Trading, Operating Systems

SKILLS

Programming: Python, Java, JavaScript, C, C++, C#, Matlab, PHP, SQL, Bash Shell Scripting, Prolog

Web: HTML, CSS, Django, Flask, D3.js, jQuery, Node.js, React, Redux, JSON, REST

Technologies: Amazon Web Services, Apache Hadoop, Apache Pig, Apache Spark, Git, Maven, Microsoft Azure, SQLite, Docker

Operating Systems: Linux (CentOS & Ubuntu), Unix, Mac OS, Windows

Languages: Native/Bilingual Proficiency – English & Spanish, Elementary Proficiency – Portuguese

WORK/RESEARCH EXPERIENCE

Adobe Systems Inc., San Jose, CA

May 2018 – August 2018

Data Scientist Intern

- ◆ Implemented a chat assistant using Microsoft Bot Framework's Node.js SDK & Microsoft's LUIS API to detect intents
- ◆ Integrated assistant with the digital marketing React platform to assist users by providing desired data insights in datasets

Adobe Systems Inc., Boston, MA

May 2017 – August 2017

Software Engineer Intern

- ◆ Implemented a dynamic scaling server-side API for a cloud infrastructure team utilizing Python & Amazon Web Services
- ◆ Migrated the team's AWS infrastructure Python API (used to manipulate AWS resources) from Boto2 to Boto3

Intelligent Product Solutions, Hauppauge, NY

January 2017

Software Engineer Intern

- ◆ Developed a WPF C# application to test embedded circuit boards & programmed 2 microcontrollers using Embedded C

Goldman Sachs, New York, NY

June 2016 – August 2016

Software Engineer Intern

- ◆ Worked as a Java & JavaScript full-stack developer on a Commodities data tool, writing & testing over 3000 lines of code

Stony Brook University Undergraduate Research & Creative Activities, Stony Brook, NY

June 2015 – August 2015

Undergraduate Summer Research Fellow – Computer Science Department

- ◆ Abstract Title: Efficient Power Delivery Using Artificial Intelligence Planning
- ◆ Implemented an efficient planning algorithm to represent power delivery on smart power grids using Python & Prolog

PROJECT EXPERIENCE

Machine Learning with Census Income Dataset in Python

March 2018 – April 2018

- ◆ Cleaned dataset with ~49K instances using OpenRefine, preprocessed data, created & tuned models using scikit-learn
- ◆ Implemented supervised learning, unsupervised learning, randomized optimization, & dimensionality reduction algorithms

Spatial-Temporal Crime Data Analysis & Visualization Flask App

March 2018 – April 2018

- ◆ Developed a tool to help users visualize, analyze, & predict crimes in Los Angeles with temporal & type filters
- ◆ Plotted ~1.6M crime points on a geographical heat map using Leaflet and visualized all statistics on Google Data Studio

Sarcastic Chatbot in Python

April 2018

- ◆ Implemented a chatbot with sarcasm generation through template-based text & emoji within a knowledge base
- ◆ Used the IBM Watson Natural Language Understanding & Classifier along with NLTK Python APIs to analyze user input

UML Software Design Tool in Java

May 2016

- ◆ Created a JavaFX application with a friendly GUI to render UML Diagrams & to export workspace to Java skeleton code

LEADERSHIP & PROFESSIONAL AFFILIATIONS

Institute of Electrical & Electronics Engineers (IEEE)

October 2015 – May 2017

Stony Brook Chapter – President (October 2016 – May 2017), Vice President (August 2016 – October 2016)

Society of Hispanic Professional Engineers (SHPE)

August 2014 – Present

Georgia Tech Chapter + Stony Brook Chapter – Webmaster (August 2015 – May 2017), Historian (August 2014 – May 2015)

- ◆ Presented research poster at the Research & Innovation in STEM (RISE) Symposia in the SHPE 2015 National Conference