David Duffrin

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SKILLS

Expert: Git - Python - PostgreSQL - NoSQL - Matplotlib - Hadoop - Numpy - Pandas
Proficient: Tensorflow - Keras - R - JavaScript - Tidyverse - NodeJS - D3 - SKLearn
Familiar: ECL - Bash - AWS EC2 - LaTeX - Java - C++ - SKImage - Japanese

EDUCATION

New College of Florida The Honors College of Florida
M.S. Data Science **GPA: 3.89**   08/2017 - 12/2018
B.A. Computer Science   08/2015 - 05/2017

Nagasaki University of Foreign Studies   03/2013 - 12/2013
Cultural Exchange

University of Wisconsin-Platteville   08/2011 - 05/2015
B.S. Software Engineering   *Transferred to New College of Florida*

PROJECTS

Intuition Behind Japanese Kanji - Undergraduate Thesis
- Using Bayesian Networks and NLP techniques to estimate kanji pronunciation

StudySubs SRS Flashcard Creator - https://studysubs.com/
- Users upload Japanese subtitles or ebooks to create personalized SRS flashcards
- A NodeJS WebApp using Google Firebase technologies
- Uses NoSQL database to maintain user data

Police Stops - https://policestops.herokuapp.com - github
- WebApp that allows that user to easily query and visualize traffic stops in the state of Florida
- Queries a postgreSQL database with 5,421,446 rows to generate a heatmap with Leaflet.js

EXPERIENCE

Data Science Internship Epic Systems   05/2018 - 08/2018
- Created a model that predicts patient diagnoses given doctors' notes
- Utilized NLP and Machine Learning technologies including NLTK, SKLearn, and Keras
- Used an auxiliary classifier for interpretability while retaining a deep network for accuracy

NLP TA New College of Florida   02/2018 - 05/2018
Intro to AI TA New College of Florida   02/2017 - 05/2017
- Provide TA sessions and office hours to answer questions and grade papers

Data Science Internship Star2Star   03/2017 - 08/2017
- Created a ChatBot for troubleshooting IoT devices with customers using NLP techniques
- Used Word2Vec on internal documentation to cluster similar words
- Detected remote phone failures using Time-Series Analysis for anomaly detection

Software Engineer Coop Sub-Zero   01/2015 - 08/2015
- Normalized MySQL database and converted VB.NET automated tests into LabVIEW
- Reverse-engineered undocumented trolleys to isolate the problem and increase uptime

EXTRA-CURRICULAR

Deans List   2014
International Student Club   2012 - 2014