

David Duffrin

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SKILLS

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

EDUCATION

New College of Florida The Honors College of Florida
M.S. Data Science **GPA: 3.85** August 2017 - May 2019
B.A. Computer Science August 2015 - May 2017

Nagasaki University of Foreign Studies March 2013 - December 2013
Cultural Exchange

University of Wisconsin-Platteville August 2011 - May 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

Multiplayer Monopoly Game in Java

- A four student collaborative, semester-long project to practice the waterfall design process

EXPERIENCE

Natural Language Processing TA February 2018 - May 2018
Introduction to Artificial Intelligence TA February 2017 - May 2017
New College of Florida - Sarasota, FL

- Provide TA sessions and office hours to answer questions and grade papers

Data Science Internship March 2017 - August 2017
Star2Star - Sarasota, FL

- Created a ChatBot for troubleshooting IoT devices with customers using NLP techniques
- Used Word2Vec on internal documentation to generate links between synonyms
- Used Gensim as a fallback for providing URLs to relevant documentation
- Detected remote phone failures using Time-Series Analysis for anomaly detection

Software Engineer Coop January 2015 - August 2015
Sub-Zero - Madison, WI

- Normalized MySQL database and converted VB.NET automated tests into LabVIEW
- Reverse-engineered undocumented trolleys to isolate the problem and increase uptime
- Created a user-friendly GUI for reporting manufacturing issues to minimize user error

EXTRA-CURRICULAR

Deans List 2014
International Student Club 2012 - 2014