Dillon Davis

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EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

BS-MCS in Computer Science
Aug 2015 - May 2019 | U-C, IL
Conc. in Big Data and Intelligence
College of Engineering
Dean's List
James Scholar
Cum. GPA: 3.86 / 4.0

BARRINGTON HIGH SCHOOL

Grad. May 2015 | Barrington, IL

LINKS

Github: **dillondavis**
LinkedIn: **dillon-davis**

COURSEWORK

FUNDAMENTALS

Introduction to Computer Science
Discrete Structures
Data Structures
Systems Programming
Applied Linear Algebra
Numerical Methods
Algorithms and Models of Computation

ADVANCED

Database Systems
Introduction to Data Mining
Advanced Data Science
Applied Machine Learning
Artificial Intelligence (FA17)

SKILLS

PROGRAMMING

Over 5000 lines:
Java • Python
Over 1000 lines:
C • C++
Familiar:
Javascript • MySQL • iOS • Clojure • HTML/CSS • R

DEVOPS/TECH

UNIX/Bash • Git • SVN • AWS S3, Elastic MapReduce, Elastic Beanstalk, and Route53 • Jupyter Notebook • NumPy/Pandas • Tensorflow • Flask • Cascading • MongoDB • PostGres • Redis • MariaDB • Hadoop

EXPERIENCE

RESEARCH Undergraduate Researcher | Computer Vision

Sep 2017 - Present | Urbana-Champaign, IL | Professor Svetlana Lazebnik

- Working on improving object visibility classifier by mixing THOR environment imagery and real imagery with a PyTorch deep learning architecture
- Will be used in Allen Institute query-based task robot research

UBER Software Engineer Intern | Maps Data

May 2017 - Aug 2017 | Palo Alto, CA

- Designed and implemented a Named Entity Recognition system for US, Mexico, and Canada address parsing using big data and sequence based machine learning techniques and received a return offer.
- Built a data pipeline to extract necessary data and build massive, robust training datasets for my models with custom features using Java's Cascading framework on AWS ElasticMapReduce
- Built Conditional Random Field models using CRFSuite with custom feature engineering to achieve full address accuracies of 93-96% on heldout data.
- Built a custom experimental Tensorflow deep learning model based on a Carnegie Mellon paper achieving state of the art full address accuracies of 98.3-99.1% on heldout data

CLIQ Software Developer Intern | Full Stack

May 2016 – Aug 2016 | Chicago, IL

- Worked on new features such as intelligently suggesting friends to invite to Cliq and user analytics tools under the CTO using Flask, Mongo, and Redis.
- Developed an experimental web app for the Cliq mobile app that aggregated top events for users' areas and later ported it to Swift/iOS.
- Created, prototyped, and tested a new feature to incorporate my events feed with our group-to-group meetup platform in an all company sprint.

PROJECTS

WIKIPEDIA VANDALISM DETECTION

- Research project to detect fraudulent or vandalistic revisions on Wikipedia
- Built a Logistic Regression model with 90% accuracy and helped train and improve a Random Forest to achieve 95% accuracy and 98% recall.

PICO CLASSIFICATION LIBRARY

- Implementation of classification algos such as Decision Trees and Random Forest in Python and Naïve Bayes and a basic Neural Network in Clojure

VIRTUAL VOYAGER

- Web Application that creates a trip for users based off any query such as 'tropical' or 'rock climbing' and recommends trips based on history
- Built using Flask, MariaDB and HTML/CSS/JS with classmates using Wikipedia data, Google Maps, and Viator

PIGGY BANK (BOILERMAKE 2017 TOP 10)

- An augmented reality game to set and reinforce good habits by placing custom tokens at the gym or class to check in every day. If a weekly goal isn't met, a set amount is donated to a charity of your choice.
- Built backend with teammate using Node.js, Express.js, and Mongoose.js assisted building web frontend.