

# CHRISTOPHER DENNISTON

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<http://octopuscabbage.github.io>

## EDUCATION

Bachelor Of Science, Computer Science  
University of Missouri Kansas City, Kansas City, Missouri  
Cumulative GPA: 3.692/4.0 - Manga Cum Laude  
May 2013 - December 2016

Master Of Science, Data Science  
The University of Southern California  
Cumulative GPA: N/A  
June 2017 - Current

## EXPERIENCE

### **Payit, Inc**

Software Engineering Intern September 2015 - June 2017  
Developed and maintained microservice backend components to support frontend components using a variety of technologies including Java, Clojure, MongoDB, Kubernetes, REST, Jersey, and more.

### **Clinical Psychology Practice, LLC**

Computer Systems Manager May 2014 - September 2015  
Managed and supervised other IT staff, Maintained computer systems, Built custom software solutions, Built custom websites, Designed Fliers, and Workbooks

## RELEVANT COURSES

### **ECE 416 - Neural and Adaptive Systems**

This course is a hands-on introduction to theory and applications of neurocomputing, including: classification, function approximation, supervised and unsupervised learning, time series analysis, and adaptive filtering using different feed-forward and recurrent artificial neural networks.

### **CS 4654 - Introduction to Statistical Learning**

This course provides a practical introduction to analytical techniques used in data science and prepares students for advanced courses in machine learning. Topics covered include multivariate distributions, information theory, linear algebra (eigenanalysis), supervised/unsupervised learning, classification/regression, linear/non-linear learning, introduction to Bayesian learning (Bayes rule, prior, posterior, likelihood), parametric/non-parametric estimation.

## HONORS

University of Missouri - Kansas City Chancellor's Scholarship  
School of Computing and Engineering First Robotics Scholarship  
University of Missouri - Kansas City Achievement Award  
University of Missouri - Kansas City Deans List  
Ankit Agarwal Computer Science Scholarship

## ACTIVITIES

University of Missouri - Kansas City, Robotics, Software Engineering Team Member, 2013-2016  
University of Missouri - Kansas City, Robotics, Software Engineering Team Lead, 2015-2016

University of Missouri - Kansas City, SAE Baja, Electrical Team Member, 2016  
University of Missouri - Kansas City, American Computing Machinery, Vice Chair, 2014-2016  
Upsilon Pi Epsilon, Member and Tutor, 2015  
Upsilon Pi Epsilon, Treasurer, 2016

## **PERSONAL PROJECTS**

### **Transfer Learning Using Convolutional Neural Networks to Detect Spoofs in Fingerprints**

Used Convolutional Neural Networks to detect fake fingerprints. Learning was transferred from the AlexNet model so training was done very quickly and still performed well. This can be found at <https://octopuscabbage.github.io/machine-learning/2016/12/15/transfer-learning-using-cnn-to-detect-spoofs-in-fingerprints.html>

### **Machine Learning on DOTA 2 Statistics**

Tried to answer two questions on a dataset of game data using supervised machine learning models. This can be found at <https://octopuscabbage.github.io/machine-learning/2016/07/31/dota-2-data-science.html>

## **EVENTS**

### **LaunchCode – Kansas City, Mo**

Reviewed projects created by LaunchCode graduates and provided feedback to projects, as well as helping them improve their projects and portfolios.

### **Global Hack 4 - St Louis, Mo**

Designed and implemented Rest Service in Haskell to facilitate rapid development of image tagging app.

### **Hack Midwest**

Designed and implemented Rest Service in Python/Flask to provide back end for FitBark and FitBit combination app.