Dilip Thiagarajan

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EDUCATION

CORNELL UNIVERSITY
B.A.: CS and Mathematics
Tanner Dean's Scholar
Dean's List
Major GPA: 4.0/4.0

THOMAS JEFFERSON HSST
Grad: June 2015
GPA: 4.4/4.0

COURSEWORK

IN PROGRESS (FALL '17)
Bayesian Machine Learning
Probability Theory
Natural Language Processing
Computational Genetics and Genomics

COMPLETED
Supervised Machine Learning
Analysis of Algorithms
Numerical Analysis
Language and Information
ML for Data Science
System Organization & Programming
Probability & Statistics
Manifolds & Differential Forms
Functional Programming
Linear Algebra
Applicable Algebra
Bioinformatics Programming
OO Design & Data Structures
Discrete Structures
Probability Theory

SKILLS

PROGRAMMING
Proficient in:
Python • Java • Octave/MATLAB
C/C++ • LaTeX• Git
Familiar with:
R • OCaml • SQL
HTML • CSS • JavaScript
ML Backends:
TensorFlow • PyTorch
ML Frontends:
Keras

WORK EXPERIENCE

GOOGLE | Cloud AI | Software Engineering Intern
June 2017 - August 2017 | Remote

- Used weakly supervised ML to analyze the difficulty of image classification problems with images labeled using crowd-compute labels.
- Involved extensive usage of Google's internal image indexing, MapReduce library and database querying libraries.

HUMAN DX | Engineering Intern
December 2016 - February 2017 | Remote

- Using neural network theory to work on machine translation of patient diagnoses.
- Building a Tensorflow framework for sequence-to-sequence models allowing for customization in any component of the overall model.

MEANWISE | AI Team Lead
June 2016 - November 2016 | NYC, NY

- Using standardized machine learning techniques to simplify the process of finding jobs and hiring by automatically matching talent with companies based on personality and organizational culture.
- Using IBM's Watson API to build a prototype app for categorizing and ranking candidates for various job descriptions.

CORNELL UNIVERSITY | Teaching Assistant: CS 2800
January 2016 - May 2016, Aug 2016 - Dec 2016 | Ithaca, NY

- Held office hours answering student questions regarding course material.
- Assisted in grading problem sets and exams for students enrolled in the course.

CORNELL UNIVERSITY | Undergraduate Researcher
April 2016 - June 2016 | Ithaca, NY

- Working to implement a usable module for stochastic depth in deep learning frameworks in Caffe, under the supervision of Prof. Kilian Weinberger.

NATIONAL INSTITUTES OF HEALTH | CS Research Intern
June 2014 – Sep 2014 | Bethesda, MD

- Clustering of regulatory elements in the human genome using scalable modules in Python and parallel processing.
- Modeled functional ties between enhancers and silencers mathematically to explain the relation between tissue-specificity of groups of regulatory elements and functional/genomic significance

GEORGE MASON UNIVERSITY | CS Research Intern
June 2013 – Aug 2013, June 2015 - Aug 2015 | Manassas, VA

- Used linear algebra and random matrix theory (in Java) to analyze correlations between mutations in common viruses, such as the influenza virus (2013).
- Investigated genomic sequences associated with protein interfaces possessing unusual attributes, such as statistically significant segments of complementary sequences using math modules available in Python (2015).

PROJECT WORK

CORNELL TECH | Undergraduate Researcher
June 2016 - August 2016 | NYC, NY

- Re-implementing a CV project to recognize in-situ groceries using Tensorflow.
- Building convolutional nets specifically for the task of recognizing groceries on the shelf using genetic algorithms.