ALEX SINFAROSA

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Education

Bachelor of Science

JAN 2012 - MAY 2016 CORNELL UNIVERSITY

Information Science, concentration in Data Science. Major GPA 3.2

Relevant Coursework

Object-Oriented Programming & Data Structure - Networks - Multivariable Calculus for Engineers - Linear Algebra for Engineers - Differential Equation for Engineers - Client & Server Side Processing for the Web - Data Visualization with D3.js - Human Robot Interaction - Design & Implementation of Digital Circuits & Microprocessors - Biological Engineering Systems - Data Science & Machine Learning

Experience

DATA SCIENCE INTERN, BERKSHIRE HATHAWAY REAL ESTATE; NY, NY – MAY 2016 - JUN 2016

Worked with real estate brokerage firm in New York to conduct statistical analysis on active properties that will help potential buyers to navigate the housing market.

TEACHING ASSISTANT CS 1300/2300 BEGINNER AND INTERMEDIATE WEB PROGRAMMING, CORNELL UNIVERSITY; ITHACA, NY – SEPT 2014 - DEC 2015

Introductory (1300) and intermediate (2300) CS courses of 300+ students focusing on HTML, CSS, PHP and JavaScript. Worked with students on how to create, deploy and use websites, user-centered design, as well as server side processing and database interaction.

FULL STACK ENGINEER - UNANNOUNCED NYC START-UP – AUG 2014 - DEC 2014

Selected to design and develop web presence for unannounced Manhattan start-up. Assisted in creating UI optimized website. Worked with senior engineer to implement back-end system written in Node.js.

Research

Department of Bio-medical Engineering

OBSTRUCTING HYPERPHOSPHORYLATION OF PATHOLOGICAL TDP-43 IN PATIENT-DERIVED INDUCED PLURIPOTENT STEM CELLS USING CDC7 KINASE INHIBITOR – AUG 2014 - DEC 2014

Original research proposal detailing a novel method of addressing sporadic amyotrophic lateral sclerosis. Model consisted of in-vitro cultures of reprogrammed skin fibroblasts from patients to test the efficacy of the tumor suppressor Cdc7 kinase inhibitor XL413 as a manner to subdue further progression of cellular pathogenesis.
Research Supervisor: Dr. Nozomi Nishimura

Languages & Technologies

Machine Learning

Classification - Regression - Clustering - Bayesian Networks - Markov Models - Logistic Regression, Nearest Neighbors - Decision Trees

Software & Languages

Python *{NumPy - SciPy - pandas - matplotlib } -* ***JavaScript*** *{D3.js - Vue.js - React.js - Node.js - Express.js} - HTML - CSS - Git - MySQL - MongoDB - Mathematica*

Other Information

Awards

Member of Cornell Association of Computer Science Undergraduate (ACSU). C-STEP Scholar.

Fluent in Italian & Spanish

November 23, 2016