

EDUCATION

New York, NY	New York University	Sep 2014 – Dec 2016
M.S. in <i>Electrical Engineering</i>		
<ul style="list-style-type: none"> • <u>Areas of Specialization</u>: Signal Processing, Machine Learning • <u>Graduate Coursework</u>: Data Structures/Algorithms, Probability and Stochastic Processes, Matrix theory • <u>Relevant Projects</u>: ECG Signal Recovery, Keyboard Visualizer, Audio Effect Implementations 		
New Brunswick, NJ	Rutgers University	Sep 2010 – May 2014
B.S. in <i>Biomedical Engineering</i> , Minors: Mathematics/Psychology		
<ul style="list-style-type: none"> • <u>Undergraduate Coursework</u>: Probability theory, Linear Algebra, Tissue Engineering, Drug Delivery , Kinetics and Thermodynamics, Transport Phenomena 		

PROFESSIONAL AND RESEARCH EXPERIENCE

Software Engineer	Truveris	Aug 2016 – Current
<ul style="list-style-type: none"> • Integrated additional copay programs to IVR system and web portal for prescription-drug coupon activations, using Twilio and third-party adjudicators • Built a text messaging program for the prescription savings program which included custom messages, automated reminders, and SMS prescription-refill requests • On-boarded new front-end engineers on front-end stack: React, Flux, Babel, Webpack, Gulp 		
Software Engineering Intern	Truveris	May 2016 – Aug 2016
<ul style="list-style-type: none"> • Developed features for the OneRx pharmacy price comparison web app using React.js, and Flux • Implemented testing infrastructure for React applications with Karma, Jasmine, Enzyme, and PhantomJS • Trained classifier with prescription data using convolutional neural network and TensorFlow 		
Engineering Mentor	Codecademy	Feb 2016 – Sept 2016
<ul style="list-style-type: none"> • Taught Python, Java, JavaScript, SQL, React and version control with Git • Conducted code reviews with new students and aided in learning programming fundamentals. 		
Crowd Collaborator	Stanford University	Jan 2016 – April 2016
Stanford Crowd Research Collective		
<ul style="list-style-type: none"> • Collaborated with Michael Bernstein to add features to Daemo, an online crowdsourcing marketplace 		
Adjunct Instructor	New York University	Sep 2014 – May 2016
<ul style="list-style-type: none"> • Course: Introduction to Engineering and Design 		

PROJECTS

ECG Signal Recovery (MATLAB)		
<ul style="list-style-type: none"> • Recovered ECG signal from noisy, incomplete data using least squares deconvolution and interpolation • Implemented deconvolution iteratively using Landweber algorithm 		
Fun-thesizer (JavaScript, HTML5/CSS3)		
<ul style="list-style-type: none"> • Keyboard visualizer using the Web Audio API that can play/draw sounds with varying audio filters applied • Integrated tuna.js library to apply filters to input signal 		
Audio Effect Implementations (Python)		
<ul style="list-style-type: none"> • Implemented various effects (AM modulation, reverb, distortion) in python using the PyAudio library 		
Non-invasive Hypertension Monitor (MATLAB, Arduino)		
<ul style="list-style-type: none"> • Utilizes a pressure transducer to detect the pulse pressure and determine arterial compliance • Filtered signal using customized Butterworth filter to eliminate noise within a frequency range 		

LANGUAGES AND TECHNOLOGIES

Programming Languages:	Python, JavaScript, Java, SQL, MATLAB
Web Technologies:	React.js/Flux, Webpack, Babel, Gulp, Flask, Pyramid, SQLAlchemy, AWS
Software/Other:	Mecurial/Git, Bash, Linux (Ubuntu), Vim, PostgreSQL