
EDUCATION

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| 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, Bioinstrumentation• <u>Graduate Coursework</u>: Data Structures and Algorithms, Probability and Stochastic Processes, Matrix theory• <u>Relevant Projects</u>: Keyboard Visualizer, EKG Bioinstrumentation Amplifier, Cell Fluid Volume Modeling | | |
| 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

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| Coding Advisor | Codecademy | Feb 2016 – Current |
| <ul style="list-style-type: none">• Taught programming languages such as Python, Java, Ruby, JavaScript, SQL and version control with Git• Reviewed coding topics with new students one-on-one and aided in learning programming fundamentals. | | |
| Researcher/Collaborator | Stanford University | Jan 2016 – Current |
| Stanford Crowd Research Collective | | |
| <ul style="list-style-type: none">• Working with Michael Bernstein to apply analytics and machine learning to Daemo, a self-governed crowdsourcing marketplace• Technologies: AngularJS, Django. PostgreSQL | | |
| Teaching Assistant | New York University | Sep 2015 – Dec 2015 |
| <ul style="list-style-type: none">• Course: EL 6303 Probability and Stochastic Processes | | |
| SoSC STEM Teaching Fellow | New York University | Jun 2015 – Nov 2015 |
| <ul style="list-style-type: none">• Contributed in the development and implementation of a STEM program involving electrical engineering, programming and wireless communication that impacted over 1000 students in the NYC area• Taught programming concepts using Arduino Unos and integrated technologies such as RFID and WIFI shields, parallax robot kits and IR/FT transmitters/receivers | | |
| Senior Design Project | Rutgers University | Sep 2013 – May 2014 |
| <ul style="list-style-type: none">• Collaborated with Dr. John K-J Li to develop a non-invasive monitor for hypertension• Created a MATLAB program to automatically calculate pulse transit time (PTT) from the ECG waveform by using a peak-detection algorithm | | |

PROJECTS

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| 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 | | |
| EKG Bioinstrumentation Amplifier (MATLAB, LabVIEW) | | |
| <ul style="list-style-type: none">• Constructed an EKG using OP amps, DAQ hardware (USB-6009) and filtering done in MATLAB | | |
| 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

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| Programming Languages: | Java, Python, MATLAB, Ruby, JavaScript, SQL |
| Web Technologies: | HTML5/CSS3, AngularJS, Bootstrap, Django |
| Software/Other: | Git/Github, Bash, Linux (Ubuntu), Sublime Text, Sqlite, Jupyter, Microsoft Office |