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**EDUCATION**

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**New York, NY** **New York University** **Sep 2014 – Dec 2016**M.S. in *Electrical Engineering*

- Areas of Specialization: Signal Processing, Machine Learning
- Graduate Coursework: Data Structures and Algorithms, Probability and Stochastic Processes, Matrix theory
- Relevant Projects: ECG Signal Recovery, Keyboard Visualizer, Audio Effect Implementations

**New Brunswick, NJ** **Rutgers University** **Sep 2010 – May 2014**B.S. in *Biomedical Engineering*, Minors: Mathematics/Psychology

- Undergraduate Coursework: Probability theory, Linear Algebra, Tissue Engineering, Drug Delivery, Kinetics and Thermodynamics, Transport Phenomena

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**PROFESSIONAL AND RESEARCH EXPERIENCE**

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**Software Engineer** **Truveris** **Aug 2016 – Current**

- Back-end engineer developing COMP, coupon optimization and marketing program and OneRx
- Building RESTful APIs, infrastructure, and web applications
- On-boarded new front-end engineers on front-end stack: React, Flux, Babel, Webpack, Gulp
- Technologies: Javascript, React, Python, Pyramid, Flask, SQLAlchemy, PostgreSQL

**Software Engineering Intern** **Truveris** **May 2016 – Aug 2016**

- 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**

- Taught Python, Java, JavaScript, SQL, React and version control with Git
- Conducted code reviews with new students and aided in learning programming fundamentals.

**Crowd Researcher** **Stanford University** **Jan 2016 – April 2016**

Stanford Crowd Research Collective

- Collaborated with Michael Bernstein to add features to Daemo, an online crowdsourcing marketplace
- Technologies: Angular.js, Django, PostgreSQL

**Teaching Assistant** **New York University** **Sep 2015 – Dec 2015**

- Course: EL 6303 Probability and Stochastic Processes

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**PROJECTS****ECG Signal Recovery (MATLAB)**

- Recovered ECG signal from noisy, incomplete data using least squares deconvolution and interpolation
- Implemented deconvolution iteratively using Landweber algorithm

**Fun-thesizer (JavaScript, HTML5/CSS3)**

- 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)**

- Implemented various effects (AM modulation, reverb, distortion) in python using the PyAudio library

**Non-invasive Hypertension Monitor (MATLAB, Arduino)**

- 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

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