

# Kenneth Peluso

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## Education

### **Brown University** • Providence, RI

August 2014 – May 2018

- Sc.B. Applied Mathematics, GPA: 3.7 / 4.0
- Relevant Coursework: Monte Carlo Simulation • Quantum Mechanics • Statistics • Deep Learning • Artificial Intelligence • Machine Learning • Data Science • Operations Research • Finite Volume Method for CFD • Comedy
- Teaching Assistant for Management of Industrial and Nonprofit Organizations, Fall 2015

## Projects

### **Tech Lead and Instructor, Wantagh TechDay** • Wantagh, NY

January 2014 – January 2018

- Helped start an annual initiative within hometown to spur an interest in computer science among young students
- Designed and created Meteor.js-based CRUD website devoted to hosting curriculum content and student's code created in TechDay's educational workshops or at home
- Manage a team of eight to create Python curriculum for the workshops, as well as teach a Python workshop

### **Applied Math Honors Thesis, Brown University** • Providence, RI

September 2017 – Present

- Develop multiple algorithms to find an optimal transition matrix that exhibits a given stationary distribution
- Create an algorithm to generate all possible restricted and successively-restricted weak compositions

### **Biotech Stock Prediction** • Group Final Project for Data Science

March 2016 – May 2016

- Developed decision tree, logistic regression, SVM, and naïve bayes classifiers in Python to predict the movement of biotech stock prices using clinical trial data, and visualized insights in D3.js

### **Wayvepool** • Hack@Brown

February 2015

- Designed and wrote front-end for a webapp enabling multiple Spotify users to mix their music interests

## Professional Experience

### **Machine Learning & Blockchain Technologist, LOFT** • Boston, MA

June 2018 – Present

- Integrating new technologies into John Hancock's / Manulife's business units
- Co-created a control panel to view all processes running around the globe with React.js, Node.js

### **Summer Associate, Bulger Partners** • Boston, MA

June 2017 – August 2017

- Performed product and commercial due diligence assessments of software and software-enabled firms, including evaluations of a firm's organization, processes, technology, competitive landscape, market trends, and market size
- Day-to-day responsibilities included primary and secondary market research, qualitative and quantitative analysis, and a presentation of these findings internally and to the client
- Created educational training materials on artificial intelligence and its market trends, which was sent to a private equity firm client, as well as presented to the entire Bulger Partners staff

### **Business Intelligence Intern, KVH Industries** • Middletown, RI

June 2016 – August 2016

- Developed a logistic regression classifier in Python to predict customer data coverage with 82% accuracy
- Introduced a Cygwin-Python interface to make these predictions accessible to sales representatives, which allows them to suggest upgrades to customers when needed; Expected to save KVH \$188,600/month
- Generated a detailed report of customer churn between data plans and presented it to the CEO and CIO
- Constructed a SQL database to easily track vessel movements; Allows KVH to more efficiently convert customers from its providers to in-house satellites, to find trends in this process, and to save at least \$30,000/month

### **Lead Programmer, Radium2 Capital** • Uniondale, NY

May 2015 – August 2016

- Created an automated CRM system in VBA with employee analytic and payroll functions used by six companies
- Trained new analysts and executives how to operate programs that I developed

### **Psychology Researcher, Sloman Lab** • Providence, RI

June 2015 – August 2015

- Utilized Bayesian networks, optimization, MATLAB, Python (SymPy, libpgm), causal and logical diagrams to research explanations and their persuasiveness

## Skills and Interests

**Interests:** Philosophy, piano, mathematical engineering, martial arts

**Soft Skills:** Public speaking, basic Italian, fierce tenacity, outgoing, autodidactic

**Technical Skills:** Python, Tensorflow, C++, VBA, SQL, MongoDB, Bash, JavaScript, D3.js, Meteor.js, Node.js, HTML/CSS, LaTeX, Git, Redshift, AWS, MS Office, Salesforce/Wave, Atlassian, Tableau, TI-Basic, Arduino, Pyret, Racket, MATLAB