

# Kenneth Potts

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## Summary

I am seeking a position in the data science field where I can leverage my experience in data analysis, statistics, mathematical modeling, machine learning, and programming. I am currently taking a course in machine learning from Cornell University where I am also a member of the Data Science and Algorithmic Trading Project Teams. I have an eye for detail and can produce quality work whether I'm working in a group setting or independently. I love explaining difficult concepts and I consider myself a bibliophile, philomath, and a self-driven learner.

## Skills

- Numerical Analysis
- Statistics, Data Science, Probability
- Mathematical Modeling
- Python, C++, Java, R, Cython, SQL, OOP
- Numpy, Pandas, Scipy, StatsModels
- Data Visualization: Matplotlib, Seaborn, ggplot
- Security/Financial analysis
- Academic Tutoring
- Discrete Mathematics
- Microsoft Suite
- Git, Git flow, Scrum/Agile
- Jupyter/iPython
- Machine Learning
- KNN, Naive Bayes, SVM, Logistic Regression, Deep Learning, Ridge, Lasso
- Kernel Methods, Gaussian Process, Bias/Variance trade off, Regularization, ensemble, Boosting, Bagging

## Education

**Ithaca College** - Ithaca, New York

**Expected Graduation May 2017**

- Bachelor of the Arts, Mathematics, GPA: 3.88/4.0
- Minors in Finance, Computer Science

**Cornell University** - Ithaca, New York

**Spring 2017**

- Machine Learning (Graduate) Course
- Organizations: Cornell Data Science (CDS), Cornell Algorithmic Trading Team

**Boston University** - Boston, Massachusetts

**Summer 2016**

- Courses: Complex Variables, Abstract Algebra

## Research and Projects

- Cornell Algorithmic Trading Team **Jan 2017 - Present**
- Empirical Distributions of Touring Times of Non-Complete Graphs **Jan 2017 - Present**
- COMAP Mathematical Modeling Competition **Jan 2017**
- Financial Market Fat Tail Data Analysis and Trading Algorithm **Fall 2016 - Present**
- Thue-Morse Sequence Research **Fall 2016 - Present**
- Numerical Integration: Adaptive Quadrature in Python **Fall 2016**
- Collatz Conjecture/Syracuse Sequence Exploration and Research **Fall 2015 - Spring 2016**

## Experience

**Ithaca College Tutoring Services** - Ithaca, New York

**Head Tutor**

**April 2016 - Present**

- Support the recruitment, hiring, training, and development of peer tutors
- Serve as a liaison between Tutoring Services and academic departments

**Peer Tutor**

**May 2015 - Present**

- Tutor students in a variety of mathematics, finance, economics, and computer science courses

**Empow Studios** - Lexington, Massachusetts

**Technology Clubs Leader**

**June 2016 - August 2016**

- Lead Video Game design and Robotics clubs for children
- Taught the Empow Studios technology curriculum during club sessions

**High Meadow Resort** - Granby, Connecticut

**Activities Leader**

**May - August 2015**

- Planned and lead activities for school outings, family reunions, and corporate parties

## Honors

- Pi Mu Epsilon (U.S. honorary national mathematics society) Member
- Phi Kappa Phi - National Honor Society
- Dean's List
- Whalen Academic Symposium Presenter, Spring 2016, Spring 2017 Research Award Winner
- IC Leadership Academy Participant
- Flora Brown Award