

# James Brian Caffey

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## EDUCATION

### **Data Science Certificate Candidate** (January 2016 – April 2016)

General Assembly, Washington, D.C.

- 11-week Python-based data science course aimed at understanding and implementing machine-learning techniques
- Utilizing visualization, regression, natural language processing and machine learning methods on large data sets

### **B.A. in Mathematics and Chinese Language and Culture**, *Phi Beta Kappa*, *Magna Cum Laude* (2006 – 2010)

St. Mary's College of Maryland, St. Mary's City, Maryland

- Coursework focused on Real Analysis and Abstract Algebra; served as a Teaching Assistant for an introductory-level course of advanced mathematics; additional coursework in Microeconomics
- One semester of advanced Chinese language courses at Fudan University in Shanghai as a St. Mary's College Asia Study Abroad Scholarship recipient (sophomore year)
- One semester of academic study at Peking University in Beijing with concurrent research internship at Financial Times, Beijing Bureau (senior year)
- GPA: 3.88 (on a 4.0 scale); inducted into the *Phi Beta Kappa* Society; awarded *Magna Cum Laude* honors; Saint Mary's Scholar and Dean's List

## EXPERIENCE

### **Private Tutoring** (September 2015 – Present)

Washington, D.C. metropolitan area

- Established private tutoring practice
- Tutoring high school students in mathematics (Pre-Calculus, AP Statistics, AP Calculus) and Mandarin Chinese

### **Sol Systems**, Independent Consultant (July 2015 – September 2015)

Washington, D.C.

- Planned, researched and delivered an executive report that included energy storage market analysis and data analysis on the economics of battery storage projects

#### *Market Analysis*

- Synthesized leading industry reports on distributed energy storage to help management understand market opportunities
- Conducted research focused on distributed energy projects that combine solar photovoltaics and battery storage for commercial and industrial applications in California

#### *Data Analysis*

- Used Python's pandas and matplotlib libraries to conduct data exploration and visualization of electricity consumption data for municipal buildings in Washington, D.C.; used data to understand trends in peak electricity use
- Developed financial models to forecast financial returns on energy storage projects

### **Magic, Inc.**, Operations Manager (March 2015 – June 2015)

Mountain View, California

- Joined a fast-paced Y Combinator startup that offers on-demand concierge services through SMS
- Worked closely with CFO and operations team to manage banking, credit card accounts, contractor payments, fraud-detection and procurement

**China Energy Storage Alliance (CNESA), Research Manager (February 2012 – March 2015)**

Beijing, China

- Coordinated the management and research for CNESA's monthly bi-lingual publication of global trends in technologies, policies and applications of the energy storage industry; contributed to CNESA's annual White Papers
- Served as the primary contact between CNESA and international member companies and organizations
- Represented CNESA as a guest author in industry publications and as an invited speaker at international conferences

*Project and Policy Tracking*

- Maintained detailed databases with over 450 global energy storage projects and country-specific energy policies
- Produced quarterly tracking reports for both project and policy developments

*Technology Profiling and Company Research*

- Conducted interviews, tracked and reported on the development of mainstream and emerging energy storage technologies at universities, research laboratories and private corporations

**VeriTrust USA, Analyst (August 2011 – February 2012)**

Bethesda, Maryland

- Provided analytical, administrative and technological support for a private company that helps American homeowners manage the foreclosure process
- Built an extensive database of relators and private foreclosure consultants to create an affiliate network
- Used Salesforce to streamline sales, processing, accounting and automatic business reporting

**LANGUAGES, SKILLS & INTERESTS**

Languages: Fluency in Mandarin Chinese; proficiency in French

Python: Experienced with programming fundamentals and Python libraries for data science including NumPy, pandas, SciPy and Scikit-learn

WordPress: Experienced in the development of simple WordPress websites with advanced plug-in integration

Hobbies: Distance running, chess, classical guitar, Raspberry Pi and Arduino