

James Brian Caffey

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OBJECTIVE

I am seeking a role on a data science team where I can leverage machine learning and technology skills and diverse experience in multiple data-focused roles.

EDUCATION

Data Science Certificate Candidate (January 2015 – Present)

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 real 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

Independent Project: PC Market Data Analysis (January 2017 – Present)

- Scrapped, cleaned visualized and analyzed data from a popular PC website
- Implemented machine learning algorithms to predict the price of PC components

Capital Websites (September 2015 – Present)

Washington, D.C. metropolitan area

- Built websites for D.C. area community organizations using Wix.com
- Produced tailored video tutorials for clients showing how to maintain and update website content

Private Tutoring (September 2015 – Present)

Washington, D.C. metropolitan area

- Established an independent private tutoring practice
- Tutored high school students in mathematics (Pre-Calculus, AP Statistics, AP Calculus) and Mandarin Chinese
- Tutored adults in Microsoft Excel skills
- Offered 3D printing seminars covering assembly of open source printers and 3D printing software

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, 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 of 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

- Built reporting and forecasting systems for a financial services 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 written and spoken Mandarin Chinese; proficiency in French

Python: Experienced with programming Python and Python libraries for data science included in the Anaconda distribution including NumPy, pandas, SciPy, Scikit-learn and Natural Language Tool Kit (NLTK)

Web Skills: Experienced with PhantomJS for web automation and BeautifulSoup for web scraping

Operating Systems: Linux and bash scripting, Windows 10, OS X

Google SketchUp: 3D architectural modeling

Blender: 3D modeling, physics simulations and video editing

Video Production: Produced educational YouTube series for law students

3D Printing: Experienced with Prusa i3 3D printers and CURA software

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