# Michael F Vertuli

## Software Engineer

📍 Philadelphia | Pennsylvania | United States
↗ https://vertuli.com
✉ michael@vertuli.com
📞 (202) 642-8256
in vertuli   ⬡ vertuli

## About

Collector of data, builder of pipelines, deployer of models, and extractor of insights.

## Experience

### Datasembly
**Software Engineer**

November 2020 - Present
(6 Months)

↗ https://www.datasembly.com

- Developing new web and mobile scrapers to collect store and product listing data from major grocers and retailers, while standardizing existing scrapers to better enable test-driven development and faster debugging.
- Deeply diving into a diverse range of mobile and web architectures, utilizing extensive proxy systems, reverse engineering, headless browsing, etc.

### Factual
**Software Engineer**

March 2019 - April 2020
(1 Year, 1 Month)

↗ https://www.factual.com

- Architected, implemented, deployed, and maintained large scale Spark pipelines and machine learning models to generate core data products and predict audience demographics and customer segments.
- Released investigations of our data using Jupyter notebooks and Django dashboards.

### Self Employed
**Private Tutor**

January 2017 - March 2019
(2 Years, 2 Months)

↗ https://tutor.vertuli.com

- Helped dozens of students with math and physics.

### Landon School
**Mathematics Teacher**

August 2016 - January 2017
(5 Months)

↗ https://www.landon.net

- Taught upper school math and helped coach freshman soccer.

## Newton
**Founder and CEO**

July 2011 - August 2016
(5 Years, 2 Months)

↗ https://newton.vertuli.com

- Founded a Shanghai-based education consultancy and led a team of counselors, marketers, and account managers serving Shanghai's top students studying abroad.
- Provided long-term, holistic, and honest academic planning and guidance.

## Shanghai Normal University
**Physics Teacher**

July 2009 - July 2011
(2 Years)

↗ http://en.ulink.cn/Shanghai/

- Taught CIE A-Level Physics to upper school juniors and seniors.

## Education

### Colorado State University

2008 - 2008

*Graduate Studies*
**Astrophysics**

Analyzed data from the Pierre Auger Cosmic Ray Observatory.

### Pennsylvania State University

2006 - 2008

*Bachelor*
**Physics, Mathematics**

Collected and analyzed data from atmospheric fluorescence scattering.

### Wilkes University

2004 - 2006

*Undergraduate Studies*
**Electrical Engineering**

Tutored physics, lab assistant, and scanning electron microscopy.

## Volunteer

### Heart to Heart Shanghai
**Sponsor and Fundraiser**

February 2012 - March 2013

↗ https://www.h2hsh.com

Raised funds for two child heart surgeries at annual student Battle of the Bands

## Languages

Scala     Python     SQL

## Toolbelt

Spark     Snowflake     Airflow     Hive     Postgres     AWS     DynamoDB     GCP
BigQuery     Snowflake     Play     Django     spark.ml