Michael F Vertuli

Software Engineer



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About

Glorified data plumber, math and physics teacher, recovering China expat, education entrepreneur, and first generation college student.

Experience

Factual Software Engineer

March 2019 - Present (1 Year, 2 Months)

https://www.factual.com

- Quickly learned new languages and software to architect, implement, and own critical tools and pipelines, earning two promotions within my first year.
- Collaborated cross-functionally with product managers, marketing, and others to deliver internal and customer-facing applications and large-scale data products.
- Built machine learning pipelines to model and segment audiences while embracing test-driven development, monitoring, and alerting in both local and cloud environments.
- Helped others understand our work at the intersection of data science and engineering through regularly published data investigations, company-wide presentations, and mentoring.

Self Employed Private Tutor

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

https://tutor.vertuli.com

 Worked with dozens of college and high school students to improve confidence and skills with math and physics between Washington, DC and Los Angeles, CA.

Landon School Mathematics Teacher

August 2016 - January 2017 (5 Months)

https://www.landon.net

 Redeveloped math syllabus to emphasize statistical thinking, real-world modeling, and practical applications, and coached the 9th grade boys' soccer team.

https://newton.vertuli.com

- Founded a Shanghai-based education consultancy and lead a team of counselors, marketers, and account managers serving Shanghai's top students aiming to study abroad in the U.S.
- Quickly pivoted from providing test preparation to fill a niche demand for long-term, holistic, and honest academic planning and guidance beyond test scores.
- Developed data scraping tools to collect and process public application profiles and admissions data into Salesforce, helping inform our staff and track student metrics.

Shanghai Normal University

July 2009 - July 2011 (2 Years)

Physics Teacher

http://en.ulink.cn/Shanghai/

- Standardized department assessments and developed system to track and report student metrics.
- Assisted IT with implementing its first school management system (SIMS) and Moodle integration.

Education

Colorado State University

2008 - 2008

Graduate Studies

Astrophysics

Analyzed fluorescence detector calibration data from the Pierre Auger Cosmic Ray Observatory using Python, MATLAB, and Mathematica to find anomalies.

Pennsylvania State University

2006 - 2008

Bachelor

Physics, Mathematics

Designed, collected, and analyzed data using Python and ROOT from an experiment measuring angular dependence of fluorescence scattering from a radioactive source.

Wilkes University

2004 - 2006

Undergraduate Studies

Electrical Engineering

Tutored physics, assisted with undergraduate mechanics course, and imaged metallic whiskers with scanning electron microscopes.

Heart to Heart Shanghai

Sponsor and Fundraiser

https://www.h2hsh.com

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

