Andrew T. Van Gilder
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Profile: Data Scientist with Analytics Master's (in progress), Applied Mathematics B.S., Chinese Language B.A. (Digital Art and Computer Science minors) with exceptional mentorship experience

EDUCATION	
	Northeastern University 2018 - *Master's of Professional Studies* Master's: Analytics **University of Wisconsin-Madison** 2013 - 2017 *Bachelor of Science* Majors: Applied Mathematics (Computational Methods) and Chinese Language Certificates: 4D/Multimedia Art and Computer Science GPA: 3.23 **Nankai University** Summer 2016 Intensive Chinese Language Program in Tianjin, China GPA: 4.0

WORK EXPERIENCE	
	University of Wisconsin Student-Athlete Tutor (2016-2017 Academic Year) -Tutored and mentored student-athletes in Multivariate Calculus, Linear Algebra, Physics **University of Wisconsin Summer Program Mentor** (Summer 2017) -Led large groups of international students (30+) through program content. -Program content, developed by supervisor and me, included academic, social, field research events. **Private Tutor** (9/2009-Present) -Provides personalized lesson plans for students (Grade 5-College Senior) in topics in advanced Math. -Coached and participated on several state-competition-winning Math, Physics, and Science teams. -Has tutored dozens of students individually and coached hundreds of students in teams.

TECHNICAL SKILLS	
	Programming Skills: **Python:** train random forest regression with 60,000 diamond sales data, predicts cost with ~95% accuracy -calculate tf-idf dictionary for transcripts of popular T.V. series to analyze similarities and differences in characters' vocabulary **Java:** construct decision trees for classification of image data and for AI chess player -use feed-forward neural network for regression to predict Facebook post reach -build naïve bayes classifier to predict genre of Shakespeare's plays **Matlab**: built Harris corner detector for images in OpenCV **JavaScript**: create shading algorithm for 3D geometry using OpenGS in the canvas, double-pass rendering for "jumbotron" effect using OpenGS in canvas **SQL, Microsoft Access:** Create operational web form for database manipulation and entry **Flask:** web-based quadratic equation solver app **HTML5, CSS:** some limited web application and webpage design including for my personal webpage, hosted on github: https://andrewvg23.github.io/ github with selected project work: https://github.com/AndrewVG23

OTHER RELEVANT SKILLS	
	Multimedia Skills: **Adobe Photoshop:** logo and pamphlet design. Portrait touch up and surreal artwork. **Rhinoceros 3D:** Three dimensional designs based on schematics. Design detailed mechanical items. **Autodesk Maya**: model, shade, rig and animate character with full walk-cycle in 1.5 minute high-definition video rendered in V-ray. (https://www.youtube.com/watch?v=oeB0tWCiMRY) -Script with Python to generate geometry for scenes -Advanced V-ray shading techniques **Language Skills**: Mandarin Chinese (Limited Working Proficiency). I regularly converse with friends in Mainland China and Taiwan.