

Naomi Wixon

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naomiwixon.com

Data Miner | Engineer

Machine Learning Expert of Ill-Defined User Behavior

Engineer with Analytical Skills: I've had a lifelong passion for design starting before my first career as a mechanical engineer. Since then I've been working in a postgraduate program as a data miner working to track and increase students' engagement with various educational software platforms. I'm most passionate about growing my skills by working on larger data sets and modeling really large amounts of highly diverse users.

Education & Employment History

Doctor of Learning Sciences & Technologies

Aug. 2013- Sept. 2018
Worcester Polytechnic Institute
GPA: 3.5

Master of Learning Sciences & Technologies

Aug. 2010-May 2013
Worcester Polytechnic Institute
GPA: 3.4

Mechanical Engineer

May 2006-July 2010
Spencer Turbine Company, Windsor, CT

Accomplishments

- Led a team in designing & implementing a new procedure to code users' sentiments & emotions
 - Authored tools to pull relevant data from a database, automatically clean, format, and analyze said data using machine learning techniques
 - Created detectors of users' emotions and disengagement using only logged data of users' interactions with an online tutoring environment
 - Led authorship of a paper at an international conference after first year in position
 - Designed complete solutions for wastewater treatment aeration and biofuel industrial systems
 - Coordinated with several departments: sales, purchasing, QC, electrical & control systems, R&D, on-site manufacturing, and drafting
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Technical Skills

- 4 Years' Total Professional Coding Experience
- 4 Years' Experience with **SQL** Queries for Data Mining
- 4 Years' Experience Scripting in **Python** and **R** for Data Mining
- Familiar with Python's **TensorFlow** neural net library for **natural language processing**
- Familiar with **SPSS** to conduct traditional frequentist analyses
- Proficient in MS Excel for Preliminary **Data Cleaning**, Analysis, & Reporting

Communication Skills

- Adept writer with several published research papers (see website)
- Accomplished presenter & public speaker at international conferences
- Comfortable improvising while presenting due to an interest in Live Action RP
- Comfortable with ground truth generation problems due to a background in emotion/motivation research