

OMOJU THOMAS MILLER

DATA SCIENTIST WITH 6 YEARS COMPUTATIONAL INTELLIGENCE EXPERIENCE.

EX-GOOGLE | WHITE HOUSE INFLUENCER | UC BERKELEY PHD.

skills

Programming Languages: Python, C, C++, Ruby, HTML, Prolog, SQL

Framework: XGBoost, NLTK, SciKit Learn

Version Control Systems: Git

projects

Predicting Gender in Introductory CS

Sept 2016

- Designed a comprehensive data-driven investigation on the dynamics of gender in intro CS.
- Implemented a XGBoost classifier to predict gender of CS students based on experience.

Semantic Web Expert System Shell (SWEXSYS)

Sept 2006

- Created an intelligent system platform capable of reasoning with multiple ontologies.
- Adapted SWEXSYS platform to sensor fusion using Dempster-Shafer theory of uncertainty.

profession experience

UC Berkeley - CSEd Doctoral Candidate

Berkeley, CA | Dec 2013-May 2016

- Designed a data-driven, machine learning, research study to investigate gender in intro CS.
 - Developed a data science unit within a historical [intro CS course](#), CS10.
- Omoju Miller. 2016. "Gaining Insights into the Effects of Culturally Responsive Curriculum on Historically Underrepresented Students' Desire for Computer Science." *Proceedings of the 123rd ASEE Annual Conference, New Orleans, LA*.

Google - Technology Portfolio Manager

Mountain View, CA | Feb 2014-Dec 2015

- Co-led a \$15M CSEd portfolio. Grew the portfolio by 25%.
- Co-led the development of vocabulary glossary for Android Development for Beginners course.

ICSI - Graduate Researcher

Berkeley, CA | Mar 2011-Dec 2012

- Implemented a conceptual metaphor [Semantic MediaWiki](#) in English, Spanish, and Farsi.
- Contributed to the design of conceptual metaphor framework.

UniversityNow - Semantic Data Scientist (Intern)

San Francisco, CA | Jun 2012 -Aug 2012

- Led a 3 person team responsible for creating an analytics console for understanding user behavior.
- Built back-end of data analytics console.

TEDxEuclidAve - Founder and Curator

Berkeley, CA | Aug 2011-Aug 2012

- Led the planning of [TEDxEuclidAve](#) 100+ member conference in service of social entrepreneurship.
- Conference put UC Berkeley as a thought-leader in social entrepreneurship.

Center for Advanced Sensors - Graduate Researcher

Memphis, TN | Aug 2003-Nov 2006

- Co-designed [OntoSensor](#), a sensor ontology using Semantic Web Ontology Language (OWL).
 - Created and adapted SWEXSYS platform to sensor fusion.
 - Co-wrote one of the most cited research papers in its area
- D.J. Russomanno, C. Kothari and O. Thomas. 2005. "[Building a Sensor Ontology: A Practical Approach Leveraging ISO and OGC Models](#)." *The 2005 International Conference on Artificial Intelligence, Las Vegas, NV* 637-643.

Thoughtware Learning Technologies - Software Engr

Memphis, TN | Aug 1999-Nov 2001

- Contributed to the development of Internet based workforce development management system.

education

Udacity - Machine Learning Nanodegree

(In Progress)

UC Berkeley - Computer Science Education, Ph.D.

2016

University of Memphis - Electrical and Computer Engineering, M.S.

2004

University of Memphis - Computer Science, B.S.

2001

grants, honors, & awards

Levo 100: Transformer, Levo League, California

2015

Bloomberg Beta Future Founder, Bloomberg Beta, California

2014

Winner, White House Dept of Edu EdDataPalooza, Washington DC

2014