

Margaret Pearce

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Education

M.S. in Computer Science , <i>University of Wisconsin-Madison.</i>	May 2016
B.S. in Computer Science , <i>University of Michigan-Dearborn.</i>	August 2011
B.S. in Computational Mathematics , <i>University of Michigan-Dearborn.</i>	August 2011

Work Experience

Analytics Scientist , <i>Ford Motor Company, Dearborn, MI</i>	May 2016 - present
Hadoop ecosystem specialist with expertise in Spark, Hive, and Python. Collaborate with data scientists to effectively leverage distributed computing environments. Participate in deep learning workshops and explore cutting-edge technology.	
Graduate Research Assistant , <i>University of Wisconsin-Madison, Madison, WI</i>	January 2015 – May 2016
Conducted human-computer interaction research focusing on optimization problems in human-robot collaboration.	
Teaching Assistant , <i>University of Wisconsin-Madison, Madison, WI</i>	August 2014 – January 2015
Provided supplemental instruction and led discussion sections for an undergraduate discrete mathematics course.	
Technical Consultant , <i>Hewlett-Packard Enterprise Services, Pontiac, MI</i>	July 2010 – April 2014
Architected and developed custom SharePoint solutions. Constructed system design specifications and led technical requirement discussions. Mentored entry-level team members. Obtained six Microsoft certifications.	

Technical Skills

Proficient: Hadoop, HBase, Hive, Git, Java, Kafka, MapReduce, Oozie, Pig, Python, Scala, Spark, SQL, Storm, Tableau, YARN
Prior Experience: Android, C#, C++, GAMS, iOS, JavaScript/ jQuery, PHP

Projects

Coree: Data Exploration Tool , <i>Python (Flask) web application</i>	November 2016 - present
Online tool for exploratory data analysis featuring popular statistical techniques and visualizations using the SciPy Python stack.	
Bunny Free , <i>Android/iOS application</i>	April 2014 - present
Sole developer of a mobile application that provides data on animal testing policies of over 2000 companies. The app has been downloaded over 100,000 times worldwide and is promoted by People for the Ethical Treatment of Animals (PETA).	

Memberships and Volunteer Affiliations

Organizer , <i>Metro Detroit Women in Machine Learning and Data Science Meetup, Detroit, MI</i>	November 2016 - present
Vice President , <i>ACM-W Student Chapter, University of Wisconsin-Madison</i>	August 2015 – May 2016
Volunteer , <i>Pet Adoption Alternative of Warren, Warren, MI</i>	March 2013 – June 2014
Computer Support Volunteer , <i>International Volunteer HQ, Phnom Penh, Cambodia</i>	September 2013