Daniel Taylor

EXPERIENCE

Stratos Inc., Ann Arbor, MI
Data Analyst, September 2014 – Present

- Create visualizations of key metrics in D3.js to help product development and company growth
- Set up the infrastructure to carry out analysis of company data including the design of our Keen.io collections
- Build models of company data to inform business decisions

Workforce Software, Ann Arbor, MI
Software Engineer*, March – September 2014*
Designed user interfaces for HR software.

Michigan Aerospace Corp., Ann Arbor, MI
Worked on data analysis and algorithm development creating pattern recognition software and mathematical models solving inverse problems for data extracted from experiments.

Research Scientist, May 2013 - January 2014

- Cleaned, formatted, and analyzed data from experiments
- Developed algorithms to solve inverse-problems
- Used natural language processing techniques to analyze text from scraped web pages
- Developed a web application using Flask, AngularJS, and MongoDB

Intern, June 2012 - April 2013

- Developed pattern recognition software for a signal intelligence program for the NAVY
- Used the Python language along with accompanying scientific/numerical packages
- Wrote technical monthly reports summarizing completed work
- Worked alongside the principal investigator and suggested solutions to our problem

Eastern Michigan University, Ypsilanti, MI
Graduate Assistant, 2011 - 2013
Performed research on the pricing of American options. Balanced research with my responsibilities to teach an intermediate algebra class and tutor in the tutoring center.

- Analyzed mathematical models for the pricing of American options
- Prepared lectures and graded assignments while solely responsible for class of 30 students

Wayne State University, Detroit, MI
Undergraduate Researcher, June 2010 - Aug 2010
As part of a summer Research Experience for Undergraduates, I simulated nuclear collisions using Unix and made calculations based on the results.

- Ran simulations of nuclear collisions in C++ and Fortran on a Unix system in order to test the validity of a derived statistical quantity
- Worked alongside graduate students and post-docs in a research environment
- Communicated progress through preparing and giving a presentation and having meetings with supervising professor

SKILLS SUMMARY

Technical: Python, Numpy/Scipy, Matplotlib, scikit-learn, D3.js, Keen.io, SQLite, MongoDB, PostgreSQL, SQLAlchemy, Google App Engine, Flask, AngularJS, C/++, Microsoft Office, SAS

EDUCATION

May 2011 - April 2013, Eastern Michigan University
M.A. Mathematics, GPA: 4.00/4.00

Sep 2009 - April 2011, Eastern Michigan University
B.A. Mathematics and Physics, GPA: 3.72/4.00

Udacity
Web Development, Artificial Intelligence, How to Build a Startup

MIT OCW
Computational Science and Engineering 1