

Daniel Taylor

EXPERIENCE

Ford Motor Company, Livonia, MI

Engineering Specialist – Quality, June 2015 – Present

- Apply engineering principles and analytical techniques to establish and continuously improve manufacturing processes and products
- Implement interim and permanent corrective actions to resolve quality issues
- Manage statistical process control activities

Stratos Inc., Ann Arbor, MI

Data Analyst, September 2014 – February 2015

- Created dashboards containing visualizations of key metrics to help product development and company growth
- Set up the infrastructure to carry out analysis of company data

Workforce Software, Ann Arbor, MI

Software Engineer, March – September 2014

- Designed user interfaces for HR software
- Provided technical support for customers

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

- Developed algorithms to solve inverse-problems resulting from LiDAR measurements
- 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 Python along with accompanying scientific/numerical packages
- Wrote technical monthly reports summarizing completed work

Eastern Michigan University, Ypsilanti, MI

Graduate Assistant, 2011 - 2013

- 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 - August 2010

- Performed nuclear physics research during a Research Experience for Undergraduates
- Ran simulations of nuclear collisions in C++ and Fortran on a Unix system in order to test the validity of a derived statistical quantity
- Communicated progress through preparing and giving a presentation and regular meetings

SKILLS SUMMARY

Python, Numpy/Scipy, Matplotlib, scikit-learn, D3.js, Flask, Keen.io, SQLAlchemy, MongoDB, PostgreSQL, SQLite, Google App Engine, C++, React.js, Minitab, SAS, MATLAB, Git

EDUCATION

May 2011 - April 2013, Eastern Michigan University

M.A. Mathematics, GPA: 4.00/4.00

September 2009 – April 2011, Eastern Michigan University

B.S. Mathematics and Physics, GPA: 3.72/4.00