Daniel Taylor

EXPERIENCE

General Motors, Warren, MI
Artificial Intelligence Computer Scientist, 2016 – Present

- Supporting several teams within the autonomous car project at GM
- Studying road network dynamics
- Building LiDar point clouds and registering with camera images

Ford Motor Company, Livonia, MI
Engineering Specialist – Quality, 2015 – 2016

- Applied analytical techniques to establish and continuously improve manufacturing processes
- Implemented interim and permanent corrective actions to resolve quality issues
- Managed statistical process control activities

Stratos Inc., Ann Arbor, MI
Data Analyst, 2014 – 2015

- Visualized data for top executives to drive product development and company growth
- Set up the infrastructure to carry out analysis of company data

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, 2013 - 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, 2012 – 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, Summer 2010

- Performed nuclear physics research as part of a Research Experience for Undergraduates
- Ran simulations of nuclear collisions in C++ and Fortran on a Unix system
- Communicated progress through preparing and giving a presentation and regular meetings

SKILLS SUMMARY

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

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

Self-Study

- Udacity – Artificial Intelligence
- MIT OCW – Computational Science and Engineering 1