Matthew Lichti

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Experience

Data Science Fellow – Galvanize Zipfian Academy - San Francisco, CA   **Jan. - April 2015**
- [Designed a model](#) with python and SQL to predict which loans on kiva.org will get funded and identify the key predictive features - used TF-IDF and a weighted random forest model
- Performed Bayesian A/B testing and multi-armed bandit analysis on website click-through-rates
- Conducted churn analysis for a ride sharing app
- Built a python model to detect fraud events in online ticketing data

Volunteer, World Traveler, and Student   **2011 - 2014**
- Volunteered teaching English and computer skills in Asia and Latin America
- Improved my technical skills through online self study including Coursera classes on machine learning, data analysis, game theory, statistics, python, finance, and neuroscience

Patent Examiner – U.S. Patent & Trademark Office – Alexandria, VA   **Jan. 2008 - Oct. 2010**
- Queried databases for relevant patent and other technical documents
- Analyzed patent claims to determine obviousness in light of prior publications
- Wrote detailed reports to communicate reasoning for rejecting or allowing each patent claim
- Conducted interviews with patent applicants and attorneys
- Domain expertise on vehicle data processing and navigation patents

Engineering Intern – Caterpillar Inc. - Peoria, IL   **May 2005 - Aug. 2007**
- Designed and implemented hardware and software test plans on engines and GPS systems
- Wrote software specification documents for embedded software
- Managed databases for purchasing, tracking, and distributing prototype hardware

Education

Iowa State University – Ames, Iowa   **Aug. 2003 – Dec. 2007**
- B.S. in Electrical Engineering – specialization in Control Systems
- Coursework in signal processing, embedded systems, digital logic, semiconductors, economics

General Assembly Data Science – San Francisco, CA   **Oct. – Dec. 2014**
- Used a variety of machine learning techniques to predict titanic survivors from Kaggle data
- Analyzed online education data to predict student performance

Awards and Leadership

- Code For San Francisco - housing market mode team - 2nd place at hackathon   **2015**
- Rotaract Club of Washington DC - Web Master, Treasurer, Executive Board   **2009 – 2012**

Skills

- **Coding** - Python (Pandas, Numpy, Scikit-learn, Matplotlib, NLTK), Java, C, Matlab, R, Bash
- **Machine Learning** - Regression, Random Forest, SVM, Naive Bayes, K-means, KNN, PCA, NLP
- **Databases** – Postgres SQL, MongoDB
- **Scalability** - MapReduce, Graphlab, AWS EC2, Spark (beginner)
- **Foreign Languages** – Spanish (proficient), Chinese (beginner)