# Cory Robinson

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Houston, Texas

### Profile

Applied Math graduate turned Processing Geophysicist with exceptional data analysis and scientific computing skills, and an interest in moving into software development.

### Education

MSc, Applied Mathematics Apr 2013 - Jun 2014

*University of Washington; 3.78 GPA*  
*Research Project: Fractal Dimension of Time Series Data with an Application to Finance*

BSc, Economics

*Texas A&M University*  
**Aug2005 - Dec 2009**

### Experience

Data Processing Geophysicist Nov 2014 - Present

[*SEIMAX Technologies*](http://seimaxtech.com/) *- Houston, TX*

* work with team to process and turn raw seismic data into a useful and interpretable subsurface image
* use GIS tools for analyzing the Earth’s surface to help draw inferences about subsurface structures
* design software work flows full of signal processing and other advanced math methods to build high quality subsurface images of the Earth.
* advising colleagues on speeding up computation runtimes for large datasets, and communicating with the software developers about bugs in programs or requirements for building new programs.

Staff Accountant Jan 2010 - Jun 2012

*Robinson & Payne PLLC - Carthage, TX*

* analyzed financial statements, assisted in conducting financial audits, bookkeeping, and prepared tax returns for individuals & corporations
* ran computations for scenario analysis in helping analyze businesses tax and financial goals
* responsible for providing accounting services for up to 200 clients and building strong client relation skills

### Technical Experience

Academic Project Jan 2014 - Jun 2014

*Fractal Dimension of Time Series Data*

* independent work completed as requirement of my graduate program; gave a 30 minute presentation
* useful for finding periods of trending & volatility in financial time series data, and as a trading indicator
* used R for analysis and running simulations and visualizations

Side Projects Jun 2014 - Present

*Amateur Programming, Data Science, and Research*

* using Python to build/program an algorithmic trading system for currency trading
* web scraping city crime data and analyzing the spatial clustering and anomoly detection over time
* automated image rotation/alignment and text segmentation to print out items with dollar amounts from a shopping receipt
* economic & policy data analysis with a focus on dissecting some of the 2016 presidential candidate’s policy proposals

### Computer Skills & Programming Languages

* Python - including Numpy, Pandas, SymPy, scikit-learn
* R - with too many packages to list
* Matlab - but can do most of what I need with Python
* SeisUP - proprietary software used for seismic data processing
* git - and github
* Fortran - with use of high performance computing frameworks such as MPI & openMP
* SQL - ususlly to connect to a database with a Python or R program
* makefiles
* C and C++
* Python web frameworks - flask & django