# 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

MS, Applied Mathematics

*University of Washington; 3.78 GPA*  
**Apr 2013 - Jun 2014**  
*Research Project: Fractal Dimension of Time Series Data with an Application to Finance*

BS, Economics

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

### Experience

Data Processing Geophysicist

[*SEIMAX Technologies*](http://seimaxtech.com/) *- Houston, TX*  
**Nov 2014 - Present**

* 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

*Robinson & Payne PLLC - Carthage, TX*  
**Jan 2010 - Jun 2012**

* 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

*Fractal Dimension of Time Series Data*  
**Jan 2014 - Jun 2014**

* 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

*Programming, Data Science, and Research*  
**Jun 2014 - Present**

* 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 (Numpy, Pandas, SymPy, scikit-learn, etc.) - R - Matlab - SeisUP (seismic data processing) - Fortran (with MPI & openMP) - C++ - SQL - Linux - git - make - Microsoft Office