

Xingzhong Xu

Seeking Data Science position

SELECTED EXPERIENCES

JANUARY 2014 – PRESENT

Individual Project

Farseer

Develop a **Django** application to predict stocks' future performances through **machine learning**. Historical daily prices as well as technique indicators (MACD, RSI, etc.) are used to construct the feature vectors for statistic regression. Technology stack includes scikit-learn, Pandas, TA-lib, Django, and Linode.

NOVEMBER 2013 – PRESENT

Individual Project

LEAPS Checker

Develop a **Python** application to monitor the abnormal open interests of financial instruments - Long-term Equity Anticipation Securities (LEAPS). The daily captured data will be normalized, rank, and published online to provide trading signal. Technology stack includes Pandas, Jinja2 and AWS.

MARCH 2012 – NOVEMBER 2013

Tech co-founder

yesgoody reward

Co-founded the firm yesgoody, which dedicated to improving the efficiencies of local merchants' daily reward program through cloud services. Designed and developed **minimum viable product** - yesgoody reward and **RESTful API**, which manages and tracks the business rewards program. Technology stack includes Node.js, Backbone.js and MongoDB.

SEPTEMBER 2010 – DECEMBER 2012

Lead Developer

Semantic signal processing

Led a team of 8 members on SSP project. Developed a software to model signal processing module through semantics and ontology. Developed plug-ins for **GCC** and **Clang** to extract and analyze the semantics of abstract syntax tree (AST).

SEPTEMBER 2011 – DECEMBER 2013

Lead teaching assistant

Intro. Programming C++

Award: Best teaching assistant in Dept. of ECE.

RESEARCH TOPIC

JANUARY 2013 – PRESENT

Recursive Bayesian estimation based on stochastic context-free grammar

45 River Dr S #407, Jersey City, NJ 07310
201-888-4979
xu.xeno@gmail.com
www.sirxu.com

EDUCATION

2011 – 2015¹ **Electrical Engineering**
DOCTOR OF PHILOSOPHY
Stevens Inst. of Tech., NJ

2009 – 2011 **Electrical Engineering**
MASTER OF ENGINEERING
Stevens Inst. of Tech., NJ

2005 – 2009 **Tel-communication**
BACHELOR OF SCIENCE
Beijing Jiaotong U., China

SELECTED² PUBLIC PROJECTS

2014 **MaxPain (sirxu.com/cp)**
Developer and maintainer

2013 **Farseer (farseer.sirxu.com)**
Developer and maintainer

2012 **LEAPS Checker (options.sirxu.com)**
Developer and maintainer

2012 **yesgoody (yesgoody.com)**
Developer and maintainer

2011 **SSP (xingzhong.github.io/ssptool)**
Lead developer

TECH SKILLS

DATA SCIENCE Numpy, Pandas, Scipy, Scikit-learn, NLTK, NetworkX

SYSTEM Linux, AWS, Heroku, GAE, MySQL, MongoDB, Django, d3.js

LANGUAGE Python, Javascript/Node.js, Matlab, C/C++, goLang, TeX

TRADING Equity, Options and Futures

PUBLICATION

Xingzhong Xu and Hong Man: Activation Analysis on fMRI time series using SCFMs. WOCC 2014

Fangming He, Wei Wang, Xingzhong Xu, ...: A network coding method for channel signatures based key distribution. ICC 2012: 5036-5041

Guang Yang, Xingzhong Xu, ...: Optimum image fusion via sparse representation. WOCC 2011: 1-4

¹Anticipated on May 2015

²project list on Github github.com/xingzhong