

Xingzhong Xu

PROJECT EXPERIENCE

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, TAlib, 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 (MVP) - yesgoody reward, 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

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EDUCATION

2011 – 2015¹

Electrical Engineering

DOCTOR OF PHILOSOPHY
Stevens Institute of Technology,
Hoboken, NJ

2009 – 2011

Electrical Engineering

MASTER OF ENGINEERING
Stevens Institute of Technology,
Hoboken, NJ

2005 – 2009

Tel-communication

BACHELOR OF SCIENCE
Beijing Jiaotong University,
Beijing, China

PUBLIC PROJECTS²

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

BACK-END

Linux, AWS, Heroku,
GAE[Python], MySQL,
MongoDB, Django

FRONT-END

Angular.js, d3.js

LANGUAGE

Python, Javascript/Node.js,
Matlab, C/C++, Scala, TeX

TRADING

Equity, Options and Futures

PUBLICATION

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

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

¹Anticipated on May 2015

²Project list on Github github.com/xingzhong