Xinyi Wu

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EDUCATION

Northwestern University

Evanston, Illinois

Master of Science in Electrical Engineering, GPA: 3.6/4.0

Expected: Sep, 2017 - Dec, 2018

- Minor: Applied Mathematics (ESAM) Department: Scientific Computing
- Course Project: Stock Index Estimation with Hidden Markov-Stochastic Volatility Model, Least Mean Square(LMS) Filtering Technique for Volatility Change Detection, Importance Sampling, Stochastic Differential Equation, Markov Chain Monte Carlo, Principal Component Analysis for Implied Volatility
- Course: Numerical Method in Random Process, Statistical Pattern Recognition, Adaptive Filter (Financial Time Series Analysis), Optimization Methods in Machine Learning & Deep Learning, Algorithms, System Theory, Digital Signal Processing, Machine Learning

Chinese University of Hong Kong

Shatin, Hong Kong

Exchange Student, GPA: 3.3/4.0

Jan, 2016 - May, 2016

Coursework: Operation Research(A), Risk Analysis in Insurance, Operation System, Database System

Shanghai Jiao Tong University

Shanghai

Bachelor in Electrical and Computer Engineering, GPA: 3.3/4.0

Sep, 2013 - Aug, 2017

- Minor: Entrepreneurship GPA: 3.4/4.0
- Undergraduate Teaching Assistant: Cryptography, Discrete Mathematics (Facilitating Recitation Class, Grading homework)
- Course: Stochastic Simulation(A+), Data Structure and Algorithm, Calculus, Linear Algebra, Managing a Business, Business Principles for Entrepreneurship, Intrapreneuship

SKILLS

- Programming: Familiar with python, MySQL, Linux Bash, VBA, Excel, C/C++, Java, Verilog, XML, LaTeX
- Languages: Chinese (Native) ,English (Fluent)

PROFESSIONAL EXPERIENCE

Electrical Engineering and Computer Science Department in Northwestern University

Evanston, Illinois

Graduate Research Assistant

April 2018 – Present

Performed literature research on Bitcoin Backbone Protocol and Speed-Security Trade-offs in Block-chain Protocols supervised by Prof. Dongning Guo

Intel Asia Pacific Research and Development Co., Ltd

Shanghai

Capstone Team Project, Python Programmer

May 2017 - August 2017

- Led a group of five students to implement a video encoder test suite that was based on Intel microprocessor
- Created test script with python, and used Linux bash to run the script on performance test, quality test and robust test Transformed complex tests into a User-friendly Interface with python module pyqt and enabled running test within one single click

Logic Solutions Co., Ltd Shanghai

Intrapreneurship Course Intern, Java Back-end Web Developer

Feb, 2017 - Apr, 2017

- Communicated with a clinical company and helped them to design a management system
- Encapsulated SQL statement into Mybatis and connected the module to Application Programming Interface with Java Collaborated on an intrapreneurship project to revise the Spring+SpringMVC+Mybatis framework to meet customer's varying requirement

Baidu Online Network Technology Co., Ltd

Beijing

Summer Intern, Data Analyst & SQL, VBA Programmer

Aug, 2016 – Sep, 2016

- Collected and filtered data from Marketing Database of Baidu Nuomi using SQL to select customer daily data such as the Page Review, User View, Customer ID, Usage Duration and the No. of New Customer (who rebuy the product in 7,14,30 days)
- Analyzed daily data by VBA to select the best activities next week and put them on "banner block" of the Buomi App
- Gathered the data of other competitors such as Meituan and Dianping, compared the differences in marketing strategy.

LEADERSHIP EXPERIENCE

College Philharmonic Association

Shanghai

12nd Minister

Sep, 2014 - Aug, 2015

- Regulated multiple parts including marketing, communication and program planning of the Hisaishi Theme Concert with Shanghai Conservatory of Music alumnus and attracted more than 300 audiences
- Organized string quartet and joined as a violinist for a donation ceremony of Jiong Wu (Investor for Alibaba) and Jie Sun (Ctrip CEO) couple

Membership, Fellowship & Awards

- 2018 Splash Course Instructor: Introduction to Quantitative Analysis (M389)
- Northwestern University Chinese Students and Scholars Association (NUCSSA): President of Career Development Department
- Institute of Electrical and Electronic Engineers International Conference on Communications (IEEE ICC 2017): Co-Author of Paper
- Shanghai Jiao Tong University Student Orchestra: Second-class violin player
- The Mathematical Contest in Modeling (2016): Meritorious Prize
- Dean's List in 2016-2017 Fall Semester

INTERESTS

Violin, String Quartet, Chess, Orienteering, Skiing, Biking, PES2018, Vocal of a Band