Programmer internship questionnaire

[1] Basic Information

1. First name: Yi

Last name : Xue

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New Haven, CT 06512

2. Email: yxuecs@gmail.com

Ph: **203-500-6378**

3. Highest level of formal education: Ph.D.

4. Education:

University	Area	Degree
University of New Haven (US)	Computer Science	M.S.
Northwestern University (US)	Biochemistry and Life science	Ph.D.
University of Sci and Tec of China (CN)	Chemistry	M.S.
Xiamen University (CN)	Chemistry	B.S.

5. GPA:

University of New Haven 4.0

- 6. Skills required:
- Complete familiarity with Windows and /or Mac :

Use window OS in daily life and do coding on it. Very proficient.

Do not use Mac often, however, took the iOS development course, and developed a mobile project in Xcode. Have some level of familiarity.

- SQL:

Very skilled with SQL. Developed a web-based database project with MySql and Java.

- Excel and VBA:

Used excel to process experimental data before, wrote some simple VBA script to automate the data processing. Overall, it is easy for me though I did not do extensive work on them.

- OO programing:

Very familiar with Java, as it is my major coding language. Used it for various course assignments, such as cryptography algorithms and web back-end development.

Have experiences with C++, used it in data structures courses.

- 7. Skills desired:
- programing with .NET or .COM

No experiences

- previous experience with trading platforms by Interactive Brokers, TD Ameritrade...

No experiences

- experience with APIs

Developed some small programs to communicate with APIs, such as google map and amazon product API. Also developed some test RESTful APIs with JavaEE for learning purpose.

- internet and Network infrastructure

Havee a good understanding of internet and Network infrastructure from the course "computer networks and data communication".

- understanding of some of the more popular cloud technologies

Limited knowledge from internet.

- Matlab, R

No experiences, but very motivated to learn them as they are exceptional in numerical computation.

- UNIX and open-source projects

Linux is another OS I used in daily life. I use ubuntu 14.0.4, and many other open source projects, including python3, Netbeans, Eclipse, and Nodejs, etc.

- Web development html, php, css ...

Familiar with html, css and javascript, wrote some simple php scripts for learning purpose. Knowledge of Jquery, nodejs and expressjs.

8. More about myself

During my graduate studies (one and a half now) my major focus is to establish the high level understanding of the relationships among different areas in computer science. Such that, I chose Java to learn the OO paradigms and gain insights in design patterns. I chose web development to integrate the language, database, cryptography and network communication knowledge. Knowledges are very dynamic, but rules are more stable. With the guidances of the rules, knowledge can be acquired much more efficiently. Now, with the knowledge and experiences mostly obtained from school, I wish to get the real opportunities to testify and practice them.

- [2] Logic
- 1. **(c)**
- 2. **(d)**
- 3. You have to check the smallest set [lily, fox]
- 4. **(e)**
- 5. **(f)**
- [3] Risk
- 1. **No.**

E is the long-run average, which means you have to play many rounds to get close to the value. Even E is positive, if the variance is too large, you may lose a lot in one round. Thus, a rational player will consider more to decide to play or not.

2. Yes.

Standard deviation is a good indication of how the outcome could spread out. Smaller value is correlated with less risk.

3. If E is very high and SD is low, I may play.

[3] Risk

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	Symbol	Q	Р	Total Value
	AAAA	600	\$2.30	\$ 1380
	BBBB	900	\$12.20	\$ 10980

2. See attached excel sheet (with pdf version).