

## **I. Actual Advertisement**

**Job Type:** Co-op/Intern

**Primary Location:** Toronto, Ontario, Canada

**All Available Locations:** Toronto

Learn from deep subject matter experts through mentoring and on the job coaching

Build a network of colleagues for life

Be expected to share your ideas and to make them a reality

**Are you interested in a career in Information Technology within a global scale?**

**Apply to this position!**

**What will your typical day look like?**

This role will give you firsthand experience on how we strategize and implement IT

systems with a global scale. You will perform application development and/or

business analysis as part of a broader project team, focused on developing and

managing predictive analytics-oriented projects for Deloitte's Global Analytics

Studio, identify and communicate risks to delivering solution on time and support and

assist the studio resources, internal clients and stakeholders to understand strategic

and tactical business needs as they relate to the predictive analytics products.

## **About the team**

Today's professional services industry is very dynamic, creating an environment that is fast-paced and challenging. Every project incorporates different skills and technologies, providing an excellent opportunity to experience and learn from the wide scope of DTTL. As an intern on our team, you are given immediate exposure to complex business issues. Your time with us will not only represent a rich and rewarding experience, but also has the potential to lay the foundation for a future career with us.

To keep your career development on track, we provide you with mentoring and training throughout your tenure, and an ongoing evaluation process to help steer your continued growth. Your career advancement within the firm is dependent on your performance and ability, not length of employment.

## **Enough about us, let's talk about you**

You are someone who is/has:

- Enrolled in a co-op program within Statistics, Mathematics, Computer Science, Engineering or related field
- A team player, motivated, innovative, perceptive, adaptable, action-oriented, with leadership capabilities

- Has demonstrated interest in Technology
- Some experience with:
  - Statistical analysis, predictive modeling and simulation techniques
  - Python/R Program
  - Database Design, Development and SQL
  - Hadoop, HBase, Hive or MapReduce or Spark (asset)
  - Data cleansing and data mining techniques and tools
- Working knowledge of machine learning concepts and theory
- Understanding of business requirement gathering analysis

## Why Deloitte?

Launch your career with The One Firm where you can make an impact that matters in a way that you never thought possible. With endless opportunities at every turn, and a culture built to support and develop our people to be the very best they can be, Deloitte is *The One Firm* for you to learn, grow, create, connect, and lead. We do this by making three commitments to you:

- ***You will lead at every level:*** We grow the world's best leaders so you can achieve the impact you seek, faster.

- ***You can work your way:*** We give you the means to be flexible in how you need and want to work, and we have innovative spaces, arrangements and the mindset to help you be wildly successful.
- ***You will feel included and inspired:*** We create a deep sense of belonging where you can bring your whole self to work.

**The next step is yours**

Sound like ***The One Firm. For You?*** Apply by **January 24, 2021 at 11:59 PM EST.**

**Please submit your cover letter, resume and unofficial transcript in ONE PDF combined file.**

At Deloitte we are all about doing business inclusively – that starts with having diverse colleagues of all abilities! We encourage you to connect with us at [accessiblecareers@deloitte.ca](mailto:accessiblecareers@deloitte.ca) if you require an accommodation in the recruitment process, or need this job posting in an alternative format. We'd love to hear from you!

*By applying to this job you will be assessed against the Deloitte Global Talent Standards. We've designed these standards to provide our clients with a consistent and exceptional Deloitte experience globally.*

Work Cited:

*“Data Scientist, Global Technology Services - Summer 2021 Co-Op/Intern.” Data Science Intern Jobs (with Salaries) | Indeed.com Canada,*  
<https://ca.indeed.com/jobs?q=data+science+intern>. Accessed 13 Dec 2020.

## II. A one-page cover letter

To Deloitte :< [accessiblecareers@deloitte.ca](mailto:accessiblecareers@deloitte.ca) >

From :Enguang Shi <samuelshi20@outlook.com >

Date: December 15, 2020

To whom it may concern,

Please consider my application for a Data Science Intern at Deloitte, as advertised on the Indeed Job Website. I am currently a student of Bachelor of Computer Science Program at University of British Columbia. I also have a Bachelor's degree in Economics in Shanghai University. I think I have rich experience in statistical analysis.

After learning the theories of statistical analysis when pursuing my first Bachelor's degree, I tried to explore more within the discipline. I consistently researched more topics and sought out relevant internships. I often consult my friends majoring in data science when it comes to novel concepts that I've heard about in this field. To be more competitive in internships, I learned Python data structures and how to use databases with Python and SQL on Coursera, receiving full marks for both courses. After that, I successfully found an internship about using Python and SQL to manage and analyze commercial data. I also found a part-time job involving machine learning and learned the basic principles of it.

Regarding mathematics, I have studied advanced calculus, linear algebra, and probability and statistics in my first degree. I also took elective courses in the data analysis, including econometrics and time series analysis. I achieved scores around 90 in most of these courses. Lastly, I learned discrete mathematics as the first-year course in UBC. I believe that my math background will fully support my study in the field of data science.

Because of my passion for data analysis, I am able to face any challenges while working to conduct decent data analysis. I am excited about this huge opportunity. I believe that with my work experience, education and communication skills, I can bring value to your team.

Thank you for your time and considering my application. If you think I am suitable, please feel free to contact me at [samuelshi20@outlook.com](mailto:samuelshi20@outlook.com).

Sincerely yours,

Enguang Shi

### **III. Resume**

# ENGUANG SHI – CV

Address: No.317, Lane 555, Jinping Road, Minhang District, Shanghai, China

Mobile: 136-5190-4710

E-mail: [samuelshi20@outlook.com](mailto:samuelshi20@outlook.com)

## EDUCATION

**Bachelor of Computer Science (ongoing)** *University of British Columbia (Vancouver, Canada)*

September 2020 –  
● Major Courses: CPSC 110 - Computation, Programs, and Programming (100/100), CPSC 121 - Models of Computation (ongoing), CPSC 210 - Software Construction (ongoing)

**Bachelor of Economics** *Shanghai University, SILC Business School (Shanghai, China)*  
Major: International Economics and Trade

September 2015 – June 2019  
● Major Courses: Econometrics (90/100), Time Series Analysis (92/100), Financial Risk Management (87/100), Advanced Calculus (86/100), Linear Algebra (81/100), Probability & Statistics (86/100)

## SCIENTIFIC RESEARCHES & PROJECTS

**Research on urban electric car sharing and the emission reduction effects** (98/100 graded by professor)

December 2018 – June 2019  
● Designed questionnaires to obtain behavioral data of more than 400 families, designed model to estimate the annual carbon emission.  
● Conducted the Breusch-Pagen test in STATA. Used robust standard error to eliminate heteroscedasticity. Conducted regression analysis to identify the factors affecting carbon emissions significantly, and predicted future emissions according to policy trends.

**The empirical research of stock index futures risk management based on GARCH-VaR model** (100/100)

April 2018 – June 2018  
● Used the CSI 300 stock index futures daily closing prices from 2013 to 2017 as data, GARCH model was constructed to estimate the rate of return. Calculated the daily VaR of the stock index futures market using the conditional variance in GARCH model.  
● This analysis generally accords with the selected trading data of CSI 300 stock index futures. It can be used to predict the price changes, so as to realize the risk management.

## WORK EXPERIENCE

**Annotation Intern** *Clobotics (Shanghai, China)*

June 2017 – June 2018  
● Assisted beverage retailers to automatically monitor product status, collected data to conduct product analysis.  
● Learned about the application of computer vision and machine learning techniques in the retail industry.

**Data Analysis Intern** *Mondelēz International, Inc. (Shanghai, China)*



June 2018 – February 2019	<ul style="list-style-type: none"> <li>● Utilized SQL to manage sales records of chocolate cookies brands including Chips Ahoy and Oreo.</li> <li>● Applied sales records in the first half year of 2018 as data samples to draw graphs via Tableau and Matplotlib package in Python --- improved the marketing strategies.</li> </ul>
<b>Quantitative Research Intern</b>	<i>Hyde Capital (Beijing, China)</i>
October 2019 – December 2019	<ul style="list-style-type: none"> <li>● Studied the factors that influence demand on Bitcoin in detail and collected the correspondent data.</li> <li>● Constructed those factors and built a contemporaneous Bitcoin pricing model.</li> </ul>

## CO-CURRICULAR ACTIVITIES

<b>Member,</b> <b>Career Development Center</b>	<i>Shanghai University, SILC Business School (Shanghai, China)</i>
October 2016 – October 2017	<ul style="list-style-type: none"> <li>● Participated in the preparation of 2 job fairs for more than 500 business school students.</li> <li>● Planned campus events for Ernst &amp; Young and KPMG as project staff. Contacted with the enterprise personnel. Arranged staffs and supplies.</li> </ul>
<b>Team Leader,</b> <b>International Trade Competition</b>	<i>China Council for the Promotion of International Trade</i> <i>First Prize at School Level, Third Prize at Municipal Level.</i>
December 2016 – April 2017	<ul style="list-style-type: none"> <li>● Led a team with students of different majors. Arranged tasks according to their talent and expertise.</li> <li>● Composed English business plan for Haier's products export, conducted face-to-face trade negotiation with foreign importers, planned and hosted English new product release conference.</li> </ul>
<b>Volunteer, ishanghai project</b>	<i>AIESEC (Shanghai, China)</i>
June 2016	<ul style="list-style-type: none"> <li>● Organized traditional culture activities for foreign students from different cultures. Led them as a guide to participate in the learning activities. Promoted cultural communication between Chinese and foreign students.</li> </ul>

## TECHNICAL SKILLS & CERTIFICATES

### Technical Skills

- Programming Languages: Java, Python, SQL
- Software & Tools: SPSS, STATA, Eviews, SQLite, IntelliJ, Pycharm, Sublime Text, MS Office
- Operating System: Mac OS, Windows

### Language Skills

- Mandarin: Native
- English: CET6 597 / IELTS 7.5 / PTE 75 / TOEFL 111 / GRE 324

#### IV. Three Reference Letter

To Shanxia Sun :< shanxiasun@shu.edu.cn>

From :Enguang Shi <samuelshi20@outlook.com >

Date: December 15, 2020

Dear Professor Sun,

I hope this email finds you well. I was one of your students of the final year project you led last year. Thank you for your great support back then. I am reaching out to ask for a reference for a position I am applying for. This position is seeking for data analysis intern in Deloitte. From this position, I am hoping to further improve my statistical analysis skills in the field of practical application. Having worked with your guidance during my last year in Shanghai University, I've learned a lot in on how to conduct data analysis using python and R, and received a decent grade afterwards. So, I believe you can assess my ability in terms of knowledge and skills of data analysis. I have attached my resume and job advertisement for the position. If you feel not convenient to write this letter, I completely understand. However, I will be very grateful if you are conformable with making the referral. Please feel free to contact me at [samuelshi20@outlook.com](mailto:samuelshi20@outlook.com) if you have any questions or concerns. Thank you very much and I am looking forward to your reply.

Sincerely,

Enguang Shi

To Tanyue Sun :< sunty@shu.edu.cn>

From :Enguang Shi <samuelshi20@outlook.com >

Date: December 15, 2020

Dear Professor Sun,

I hope this email finds you well. I was one of your students in the Time Series Analysis course you taught last year. I am reaching out to ask for a reference for a position I am applying for. This position is seeking for data analysis intern in Deloitte. From this position, I am hoping to further improve my statistical analysis skills in the field of practical application. Having learned the skills of time series analysis on your class, I've done a whole time series analysis on SP 500 as the final assignment of that course and received full marks. So, I believe you can assess my ability in terms of knowledge and skills of data analysis, especially the skills of using STATA and Eviews. I have attached my resume and job advertisement for the position. If you feel not convenient to write this letter, I completely understand. However, I will be very

grateful if you are conformable with making the referral. Please feel free to contact me at [samuelshi20@outlook.com](mailto:samuelshi20@outlook.com) if you have any questions or concerns. Thank you very much and I am looking forward to your reply.

Sincerely,

Enguang Shi

To Jing Wu:<wu.j@hyde-capital.com>

From :Enguang Shi <samuelshi20@outlook.com >

Date: December 15, 2020

Dear Dr. Wu,

I hope this email finds you well. My name is Enguang Shi. I was one of your mentees in a remote internship program with Hyde Capital. I am reaching out to ask for a reference for a position I am applying for. This position is seeking for data analysis intern in Deloitte. From this position, I am hoping to further improve my practical statistical analysis skills in the field of practical application. When I was in Hyde Capital as an intern, I've done a data collection and a pricing model on Bitcoins under

your guidance. So, I believe you can give some insight into my abilities and potential in this area, especially the skills of making individual financial report and modelling. I have attached my resume and job advertisement for the position. If you feel not convenient to write this letter, I completely understand. However, I will be very grateful if you are conformable with making the referral. Please feel free to contact me at [samuelshi20@outlook.com](mailto:samuelshi20@outlook.com) if you have any questions or concerns. Thank you very much and I am looking forward to your reply.

Sincerely,

Enguang Shi