Xinyu Xiong

MSc in Software Development

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Competencies

💻 IT Skills

MATLAB, Maple	●●●●●
Java	●●●●○
LaTeX	●●●●○
Microsoft Office	●●●●○
Python, Xpress	●●●○○

💬 Languages

English	●●●●●
Mandarin	●●●●●
Shanghainese	●●●●●
German	●●○○○
Cantonese	●●○○○

Interests

Gym, Yoga, Archaeology, Languages, Rifle Society

Professional Profile

A diligent and detail-oriented BSc in Mathematics graduate, currently studying towards a MSc in Software Development. Possesses valuable knowledge of search engine optimisation, data analysis and several programming and coding languages, including MATLAB, Java, Python and Xpress. A strong team player with excellent communication, listening and negotiation skills, along with the ability to deliver projects within stipulated timeframes, used to great effect to succeed in a fast paced, technical environment.

Objective

Currently looking for a position within the software engineering, data Analyst or computer industry, one which will make best use of knowledge obtained during BSc and MSc studies, whilst enabling personal and professional development through mentorship, courses and structured on-the-job training.

Career Summary

👤 **Marketing Intern**   07/2014 – 08/2014
💼 EF Education First, Shanghai

RESPONSIBILITIES

- Gained valuable knowledge and understanding of marketing, search engine optimisation and how search engines works
- Analysed, reviewed and implemented ways for websites and results to be picked up by search engines
- Collected data and developed content to include keywords or phrases in order to increase traffic to websites, i.e. a word or phrase to enable EF website to appear higher in the result in the Google search box
- Used excellent organizational skills, speed and accuracy to assist with various national campaigns

👤 **Interpreter**   1 week in 2015 and 2017
💼 Shanghai Weixiang Zipper Manufacturing Ltd.

RESPONSIBILITIES

- Used strong listening and communication skills to translate conversations, whilst accompanying the Manager to factory and company visits in Bangladesh
- Obtained basic knowledge of business style of zippers and garments in Bangladesh, production process, quality standards and negotiation skills

Education

👤 **MSc in Software Development**   2018 – 2019
🏛 The University of Glasgow
Degree Expected: Distinction

👤 **Bachelor of Science in Mathematics**   2015 – 2018
🏛 The University of Edinburgh
Degree Achieved: 2:1

👤 **A-Levels**   2013 – 2015
🏛 EF International Academy (High School)

Maths: A*   Further Maths: A*   Chemistry A

Projects

📁 Final Year Project: Introduction to Geometric Measure Theory

- When thinking of dimensions, it is common to regard a line as one-dimension, a triangle as two-dimension and an object in real life as three-dimension. However, there are objects that are named fractals in the world with dimension log2/log3, which is an irrational number.
- In this paper some special fractals and different dimension definitions were discussed, whilst providing the ways to calculate them.

📁 Case Study of an Electricity Company

- Epower is an electricity company that provides the city with electricity generated in 6 ways, each with its own limitations and production costs.
- Methods were implemented to attempt to reduce the carbon dioxide emission. The wind also changes daily and is therefore unstable.
- Aimed at minimising the production cost, whilst meeting the demand for the electricity of the entire city, the group produced a program in Xpress, a tool for linear optimisation, to find the best plan for generating the electricity using all 6 ways in 7 days. The result was published through a presentation.

📁 Eigenpicture

AN EIGENPICTURE OF A 2X2 MATRIX SHOWS ITS EIGENVECTORS AND THE MAPPING.

- Using Maple, a program was created which could produce the eigenpicture of any given 2x2 matrix.
- 4 special types of 2x2 matrices were selected in the final presentation to illustrate their unique features.

📁 Top Trumps Card Game

- Top Trumps is a card game where at least two players are involved.
- Game rules and principles are implemented through Java. There is only one human player and the rest are AI players.
- The game result is collected and uploaded to database. The human user can always look at the game statistics before starting a new game by querying the database.
- Two models are created where one of them works in command line and the other one works as a web application.

📁 Internet Technology Group Project

- The website can show recipes that requires input ingredients or dish name.
- Users are able to upload their own recipes and comment on other recipes after logging in
- This website is aiming for people who are willing to discuss cooking recipes, need inspiration on their meals and have guidance on cooking.
- Python, Django, HTML, CSS, JavaScript, Database are used.