Xinpei Li

2nd year, Combined Honours Computer Science and Statistics
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TECHNICAL SKILLS

Programming language: JavaScript, Java, Python, R, C++, C, Assembly, MATLAB
Databases: MySQL, JDBC, Oracle, SQL

PERSONAL PROJECTS

nezhajojojo.github.io - personal technical blog website   Jan 2020 — Current
- Website where personal projects can be viewed
- Designed & built using own templates
- Web layout and dynamic effects achieved by using the combination of HTML, CSS, JavaScript, and jQuery is used intensively to facilitate node manipulation
- p5.js is used intensively for 2D graphics and algorithm visualization

L-Systems Generator   Jan 2020
- Implemented Lindenmayer-system using JavaScript
- Made use of the idea of Turtle Graphics to draw geometric patterns
- Created a GUI with a set of text inputs and buttons so that a user can customize certain axiom and rules to generate complex geometric or plant patterns
- User can click on the canvas to change the source of geometry generation
- Used JSON to save and load some pre-defined geometric patterns

ACADEMIC PROJECTS

BookList - Personal project for UBC course Software Construction   Jul — Aug 2019
- Java software designed to store and display information on books
- Achieved polymorphism to store different types of books
- Built a GUI to display booklist information, and provided an interface so that the user can add, modify, or delete book information
- Used observer design pattern to listen to user behaviour, and dynamically change the booklist information piechart on the panel

WORK EXPERIENCE

Teaching Assistant, Department of Computer Science   Jan 2020 — Current
- Currently working in CPSC 121: Model of Computation lab
- Instruct students to complete lab tasks, help students design logical circuits and use Logisim

Teaching Assistant, Department of Mathematics   Sept — Dec 2019

- Led and organized the MATH 184 workshop
- Facilitated groups of students solving calculus problems

Research Assistant, Culture and Self Lab, Department of Psychology   Sept — Dec 2018
- Literature reviews — searching for research papers that focused on a relevant topic
- Approached and asked people in DT Vancouver to participate in research by filling out surveys
- Run research labs in the department of psychology, facilitated student participants to complete lab tasks, and record their response
- A lot of communication with lab participants, including giving them instructions that led them to believe that they were doing a irrelevant task, thus hiding the goal of experimental design, and debriefing to participants the true purpose of the experiment after they finished lab tasks

IELTS Instructor, New Oriental Education & Technology Group   May — Aug 2017
- Hired as an intern IELTS Instructor in New Oriental, Hangzhou, China
- Taught one-on-one tutoring lessons as well as small classes with 6-8 high school or university students who intended to take IELTS
- Designed and prepared lecture slides for reading and listening courses, organized in-class activities to encourage students participating in active learning
- Guided students to solve Cambridge IELTS problem sets

DISTINCTIONS & AWARDS
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Dean's List   2018 — 2019
Outstanding International Student Award – Vancouver Campus, UBC   2018
President's Scholarship, University of Waterloo   2017

EDUCATION
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BSc Combined Honours Computer Science and Statistics, UBC   Sept 2019 — Current

BA Psychology, UBC   Sept 2018 — May 2019

BA Psychology, University of Waterloo   Sept 2017 — May 2018