Sarah Pu

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SKILLS

LANGUAGES: C++, C, Java, Bash, Scheme, HTML, CSS, JavaScript
TOOLS/FRAMEWORKS: Git, Gatsby, React, Greenfoot, BlueJ

PROJECTS

PERSONAL WEBSITE   May 2020
- Created a fully interactive personal website using Gatsby, framework based on React.
- Used HTML/CSS and JavaScript to employ a responsive web design for consistent experience

BOIDS ARTIFICIAL LIFE SIMULATION   January 2017
- Created a Greenfoot simulation in Java of the flocking behavior of birds weaving through a forest
- Implemented vector forces to ensure optimal separation, alignment, and cohesion within the flock for efficient navigation around trees

WORK EXPERIENCE

PROGRAMMER   Toronto, ON
KGS Research   May 2019 – December 2019
- Created and deployed live online surveys using LimeSurvey, JavaScript, HTML/CSS
- Provided manual testing to ensure fool-proof and error-free programs; Communicated directly with clients.

PIANO TUTOR   Winnipeg, MB
Independent Tutor and Peart Music Studio   September 2014 – June 2018
- Provided piano lessons for 10 students ranging from beginner to grade 10 of the Royal Conservatory of Music
- On average, students progressed 2 grades per year and scored 90% in their Royal Conservatory of Music Examinations; this is double the typical rate of grade progression and 17% higher than the average exam score

ACADEMIC TUTOR   Winnipeg, MB
Fort Richmond Collegiate   September 2015 – June 2018
- 1 of 5 students who qualified to provide paid personalized tutoring services for all core courses including Math, Computer Science, Biology, Physics, Chemistry, English and French as part of the Fort Richmond Collegiate peer academic tutoring program
- Students achieved a 15% increase in exam / midterm scores on average

EDUCATION

UNIVERSITY OF WATERLOO   Waterloo, ON
2B Bachelor of Computer Science, Honours, Co-op Program   Expected Graduation: June 2023
- Recipient of the President's Scholarship of Distinction for 95% GPA; awarded $5,000
- Coursework: Object-Oriented Software Development, Data Structures/Management, Algorithm Design and Data Abstraction, Probability

EXTRACURRICULAR ACTIVITIES AND PHILANTHROPY

ARCT CERTIFIED PIANIST   Winnipeg, MB
Royal Conservatory of Music   September 2009 – Present
- Awarded an aggregate of ~$4,700 from provincial scholarships and competition awards
- Awarded $1,500 for the 2016 Phyllis and Dorothy Holtby Scholarship (out of 2,000 applicants)

CHARTIY PERFORMANCE PIANIST   Winnipeg, MB
Canadian Diabetes Association   September 2015 – June 2018
- Performed 5 piano pieces for ~700 attendees at the 2016 Annual Best Banting Masquerade Gala, which raised $30,000 to support the Manitoba D-Camps program for children and youth living with type 1 diabetes