JANE SHI

2B Computer Science and Pure Math at University of Waterloo

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WORK EXPERIENCE

Big Data Researcher and Developer SAP Labs

May 2019 - Present

♥ Waterloo, ON

 Researching and implementing database optimization methods for SAP HANAa in-memory database software

Software Developer

Grapevine6

May 2018 - Aug 2018

♥ Toronto, ON

- Wrote Java application (using Solr-Client) that analyzes and records errors in the log file, then reports the information via email, which improved efficiency for testing
- Implemented the backend for a new SMS feature using Ionic Framework, React JS, Twilio and MongoDB, which allows customers to receive news digest and share social media content via SMS
- Integrated Swagger and Mocha testing (with Node.js) into the codebase, by adding automated tests and API documentation, which improved the codebase readability, and shortened time for testing

PROGRAMMING PROJECTS

Multi-player Tetris with C++

- Implemented interactive game features, such as block rotation, pattern matching, and special effects.
- Utilized various design techniques, such as using factory pattern and observer pattern for player's interactions, and command pattern and prefix trees for processing user input.
- Implemented command-line interface and graphical interface with C++ graphics library and MVC design pattern.

Stanford Machine Learning Course and deep learning course

- Achieved 96%, implemented supervised learning and unsupervised learning algorithms using MATLAB
- Implemented linear regression, gradient descent, neural network, and k-means algorithm

MATH EXPERIENCE

- Top 6 in Canada, Canadian National Math League, 2016
- Top 20 out of 18284 participants, Euclid Competition, 2015
- First place out of 747 participants, Alberta Math Competition, 2015
- National Math Olympiad qualifier, 2015, 2016, 2017
- Attended six invitational and selective math summer events, including Canada/USA Mathcamp and Canadian Math Society Camp

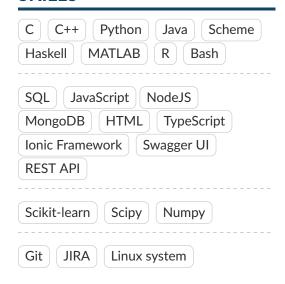
LEADERSHIP

- Volunteer, Women in Computer Science, University of Waterloo
- Greenhouse Social Entrepreneurship program, University of Waterloo
- Youth Advisory Council, Immigrant Services, 120+ hours of volunteering, 2015-2017
- President for High School Math Club, 2015-2017

VISION

"Inspired by the theory of computer science and mathematics; Focused on learning about algorithms that transform data into solutions"

SKILLS



EDUCATION

Computer Science and Pure Mathematics

University of Waterloo

Sept 2017 - Apr 2022

- René Descartes National Scholarship
 1 of 4 recipients (\$18,000)
- President's Entrance Scholarship
- Dean's Honours list, Fall 2017
- Advanced CS Courses: Object Oriented Design, Functional Programming, Data Structures
- Advanced Math Courses: Linear Algebra, Analysis, Combinatorics

SOFT SKILLS

- Driven and diligent self-learner
- Effective and technical communicator in teams
- Challenge-seeking
- Consistent work habits, as shown in high academic standing

INTERESTS

- Skydiving
- Fitness Oriented
- Food and travel blogger at www.janeshi.com
- Fluent in Mandarin Chinese