Tanson Lee

Computer Science

Personal Website: https://tansonlee.netlify.app/

GitHub: https://github.com/tansonlee

LinkedIn: https://linkedin.com/in/tansonlee

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SKILLS

Web Development

- JavaScript
- React
- REST APIs
- HTML5 / CSS3

Programming

- Python
- C
- R
- Racket

Tools

- Version Control (Git / GitHub)
- Bash Shell
- Vim

Soft Skills

- Teamwork
- Leadership
- Public Speaking
- Organization

EXPERIENCE

Software Developer Intern Sciex

August 2019

- Developed a Snorkel labeling algorithm to automate the analysis of mass spectrometry data
- Reduced analysis time from 1 hour to ~1 minute with >95% accuracy
- Presented an analysis of my findings to the team in a 45 minute presentation
- Utilized Python with Juypter Notebook with NumPy, Pandas, and Matplotlib

Computer Science, Math, Physics, Chemistry Tutor

March 2019 - Present

• Tutored grade 10, 11, and 12 students for 150+ hours improving their grades by ~10% on average

Store Clerk Canadian Tire

July - November 2018

• Performed effectively under stress and demonstrated strong communication skills with customers

PROJECTS [10+ more on GitHub and my website; link at the top right]

COVID-19 Data Tracker

https://github.com/tansonlee/covid19-data-tracker

- Built a web application to visualize COVID-19 data with an intuitive and aesthetic UI/UX
- Utilized the React framework, with Axios for REST API requests, Chartjs for graphs, and Material UI

My Machine Language

https://github.com/tansonlee/machine-language

- Designed and implemented a stored program computer that runs a machine language with 15 operations
- Utilized functional programming in Python and learnt about computer architecture

Sorting Algorithms

https://github.com/tansonlee/sorting-algorithms

- Implemented 6 sorting algorithms to both theoretically and experimentally test their efficiencies
- Utilized Python and Matplotlib to generate, collect, and visualize the data

Collision Simulator

https://github.com/tansonlee/collision-simulator

- Created a visual simulation for 2D elastic and inelastic collisions with a partner
- Utilized JavaScript with object oriented design to create a cohesive and playful UI/UX

Sudoku Solver

https://github.com/tansonlee/sudoku-solver

- Created a visual sudoku puzzle solving algorithm that solves any sudoku in under 30 seconds
- Utilized JavaScript with object oriented design to implement a back tracking algorithm

EDUCATION _

University of Waterloo, Bachelors of Computer Science

GPA: XX.X%

- Participated in 2 hackathons: Hack the North, Delta Hacks
- Taking advanced level computer science courses (~6% of students in the faculty take them)

St. Robert CHS, International Baccalaureate Programme

GPA: 97.5%

• Participated in DECA, STEM Council, SHAD, HOSA, Student Opportunity, Orchestra, Mental Health Committee