Tanson Lee
Computer Science

Personal Website: https://tansonlee.me
GitHub: https://github.com/tansonlee
LinkedIn: https://linkedin.com/in/tansonlee
t227lee@uwaterloo.ca

Skills

- **Languages**: Python, C++, C, Bash, JavaScript, SQL (PostgreSQL), R, HTML, CSS
- **Technologies**: Node, Express, React, Redux, SASS
- **Tools**: Git, Stripe, Linux (Ubuntu), Heroku, AWS S3, Vim
- **Soft Skills**: Eager to learn, Teamwork, Communication, Organization

Experience

Full Stack Developer   Sept 2021 – Dec 2021
Dreamschools | *Node, Express, PostgreSQL, React, Bash, Stripe, AWS S3*
- Managed all technical aspects of the company, including training 2 full-time developers, reviewing all pull requests, deploying to staging/production, and advising business decisions from a technical perspective
- Created functionality for coupons, gift cards, refunds, and taxes in the checkout system which processes $25,000/month
- Reduced technical debt in the checkout, financial reports, and modals improving modularity and shrinking code size by 45%
- Reorganized the development lifecycle by creating deployment shell scripts and revamping the Git workflow

Software Developer Intern   Aug 2019
SCIEX – Danaher Subsidiary | *Python Jupyter Notebook, NumPy, Pandas, Matplotlib*
- Implemented Snorkel labeling software to automate the analysis of mass spectrometry data reducing peptide verification times from over 1 hour to 1 minute with >95% accuracy
- Programmatically generated 2500+ labeled data points for the Machine Learning Department

Private Computer Science, Math, Physics, Chemistry Tutor   Mar 2020 – Present
- Tutored university, college, and high school students for 150+ hours improving their grades by ~10% on average

Projects   [10+ more on my personal website & GitHub]

PyScript – An Interpreted & Compiled Programming Language   https://github.com/tansonlee/PyScript
- Developed a scripting language with all core features including variables, functions, loops, conditionals, I/O, and comments
- Designed a custom assembly and machine language which runs on a CPU simulator
- Implemented an interpreter as well as a compiler and assembler to translate between PyScript and the machine language

Fooder – Collaborative Food Choice Application   https://fooderweb.netlify.app/
Node, Socket.IO, React, MaterialUI
- Built a responsive application which helps friend groups decide where to eat by displaying and matching food options
- Implemented rooms and real-time restaurant matching between multiple clients using web sockets

TrackMe – Project Management Application   https://track-me.netlify.app/
React, Redux, Node, MongoDb, SASS, Firebase
- Developed an application which helps manage, plan, and organize software projects
- Implemented bug tracking, to-do list, and status indicating features as well as Google and GitHub user authentication

COVID-19 Data Tracker   https://covid19-tracker-tansonlee.netlify.app/
- Built an aesthetic web application to visualize COVID-19 data using React and the OpenCOVID API

Collision Simulator   https://tansonlee.github.io/collision-simulator/
- Created an interactive collision simulator with a cohesive UI/UX using JavaScript and object-oriented design

Education

University of Waterloo, Bachelor of Computer Science   GPA: 94.5%
- Participated in hackathons: Hack the North, Delta Hacks